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(Ref. Z9-06)

1 INTRODUCTION

1.1 Background

- 1.1.1 The 2013 Policy Address first stated the need to take forward further development of the New Territories North (NTN) with a view to developing a modern new town there on a similar scale of the Fanling or Sheung Shui New Towns. In 2014, the Government commissioned the Preliminary Feasibility Study on Developing NTN (referred hereafter as "the Preliminary Study") and an area in San Tin / Lok Ma Chau (STLMC) was identified as having potential for further development. In October 2016, a Broad Land Use Concept Plan (BLCP) of the area was promulgated in the public engagement of "Hong Kong 2030+: Towards a Planning Vision and Strategy Transcending 2030" (Hong Kong 2030+)".
- 1.1.2 Following the announcement of advancing the studies on developing brownfield sites in the NTN in the 2018 Policy Address and the acceptance of the eight land supply options recommended by the Task Force on Land Supply in February 2019, the Feasibility Study on STLMC Development Node (STLMC FS) as the first phase development of NTN was jointly commissioned by the Civil Engineering and Development Department (CEDD) and the Planning Department (PlanD) in September 2019 to further develop the BLCP into a Preliminary Outline Development Plan (PODP) and confirm its feasibility. The PODP was presented to the Legislative Council in mid-2021 in the form of an Initial Land Use Plan.
- 1.1.3 In October 2021, the 2021 Policy Address proposed to expand STLMC Development Node into San Tin Technopole together with the Hong Kong-Shenzhen Innovation and Technology Park (HSITP) at the Loop. By making use of the land to be released by the Lok Ma Chau Boundary Control Point (LMC BCP) upon commissioning of the new Huanggang Port with co-location arrangement, and replanning the rural areas and fishponds around LMC BCP, it is proposed to increase the land supply for innovation and technology (I&T) development so as to achieve industry clustering effect with economy of scale. It is also proposed to increase the housing supply in San Tin Technopole to help address the housing shortage in the territory, in which some of the units can be used as talent apartments for I&T enterprises and research institutes. The Northern Metropolis has been incorporated in the Conceptual Spatial Framework promulgated in the Final Report of Hong Kong 2030+.
- 1.1.4 In the same month, CEDD and PlanD jointly commissioned AECOM Asia Co. Ltd. (AECOM) to undertake the Investigation Study on STLMC Development Node (hereinafter referred to as "the Project") to take forward the San Tin Technopole initiative and formulate the Recommended Outline Development Plan (RODP) for STLMC area, carry out engineering and technical assessments including the statutory Environmental Impact Assessment (EIA), and conduct public engagement (PE) to facilitate public discussions and foster consensus building. A 2-month PE was conducted between June and August 2023 to solicit public views on the RODP. Taking into account the public views collected in the PE, planning and engineering considerations, technical assessments as well as departmental comments and advice, a Revised RODP was formulated.
- 1.1.5 According to the Revised RODP, STLMC area will be developed into an I&T hub and a new community providing about 50,000 to 54,000 flats for a new population of about 147,000 to 159,000. It will generate about 165,000 jobs including 120,000 jobs on I&T sites. It will be an integral part of San Tin Technopole, providing ample amount of I&T land in various sizes for different I&T uses, as well as an integrated community with wide range of commercial, retail, community, recreational and cultural facilities.
- 1.1.6 The Project boundary is based on the boundary of Revised RODP. The location of the Project is provided in **Appendix A**.

1.2 Objective of this Report

1.2.1 This Health Impact Assessment Report is compiled in accordance with Section 3.4.8.4 of the EIA Study Brief (No. ESB-340/2021). The Health Impact Assessment Report includes:

- A summary of the findings from ground investigation works;
- Presentation of the distribution of arsenic based on the data obtained;
- Calculation of a Risk-Based Screening Level for the development; and
- Outline of mitigation measures including treatment of soils exceeding the threshold concentration.

1.3 Environmental Legislations, Standards and Guidelines

- 1.3.1 Relevant environmental legislation guidelines and standards on land contamination aspects include the following:
 - Section 3 (Potential Contaminated Land Issues) of Annex 19 "Guidelines for Assessment of Impact on Sites of Cultural Heritage and Other Impacts" of the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM).
 - Section 3.4.8 of the EIA Study Brief (No. ESB-340/2021)
 - Guidance Note for Contaminated Land Assessment and Remediation (Guidance Note)
 - Practice Guide for Investigation and Remediation of Contaminated Land (Practice Guide)
 - Guidance Manual for Use of Risk-based Remediation Goals for Contaminated Land Management (Guidance Manual)

1.4 Other Reference

- 1.4.1 This report also makes reference to the following:
 - EIA report of North East New Territories New Development Areas (NENT NDA) (AEIAR-175/2013) and its Health Risk Assessment (HIA) Report in Appendix 8.4 of the EIA Report
 - Geochemical Atlas of Hong Kong, Civil Engineering and Development Department, 1999

2 FINDINGS ON GROUND INVESTIGATION

2.1 Proposed Sampling Location

2.1.1 With reference to the Methodology Statement on Health Impact Assessment, 48 boreholes were proposed to verify the concentration and distribution of arsenic in the Project area, however, due to site constraints and land availability, only twenty-one (21) boreholes were completed. The twenty-one (21) boreholes are as follow:

EDH01 - EDH09, AEDH01, AEDH03, AEDH10 - AEDH14, AEDH23 - AEDH26, AEDH29

Specific constraints for each inaccessible borehole are provided in **Table 2.1**.

Table 2.1Site Constraint for Proposed Borehole

Proposed Borehole	Site Constraint		
AEDH08, AEDH17, AEDH28, AEDH31, AEDH34	Access to each location via a road/footpath is not viable for heavy equipment		
All other proposed boreholes (AEDH02, AEDH04 – AEDH07, AEDH09, AEDH15 – AEDH16, AEDH18 – AEDH22, AEDH27, AEDH30, AEDH32, AEDH33, AEDH35 – AEDH 39)	Access not yet granted by Lands Department due to objection from villagers on the STLA application. Liaison with the villagers is on-going and approval for access is pending.		

- 2.1.2 A total of 21 boreholes were advanced to a maximum depth of 30m with 191 samples recovered for determination of arsenic concentrations. Borehole locations is presented in **Figure 60670882/Z9/703**. Drillhole records by a qualified geologist and core box photos are presented in **Appendix B**. General site photos are provided in **Appendix C**.
- 2.1.3 Soil samples were recovered at 1.5m below ground level (bgl), 3m bgl, 6m bgl, 10m bgl, 15m bgl, 20m bgl, 25m bgl and 30m bgl at all sampling locations except for EDH02, AEDH01, AEDH25 and AEDH29.
 - EDH02: bedrock (SILTSTONE) was encountered after 21.5m, therefore no samples suitable for soil analysis were recoverable from depths exceeding 20m bgl.
 - AEDH01: bedrock (SILTSTONE) was encountered after 22.5m, therefore no samples suitable for soil analysis were recoverable from depths exceeding 20m bgl.
 - AEDH25: bedrock (TUFF) was encountered after 16.8m. No samples suitable for soil analysis were recoverable at 30m bgl.
 - AEDH29: bedrock (TUFF) was encountered after 22.7m, therefore no samples suitable for soil analysis were recoverable from depths exceeding 20m bgl.

2.2 Quality Assurance/Quality Control (QA/QC)

- 2.2.1 Soil boring/excavation and sampling was supervised by Resident Site Staff and the on-site land contamination specialist. All sampling equipment in contact with soils or groundwater was decontaminated between each excavation, drilling and sampling event to minimise the potential for cross contamination.
- 2.2.2 Sampling equipment blank and duplicate soil samples has been included as the field QA/QC sample programme:
 - Sampling equipment blank is a sample of reagent water used to rinse the sampling equipment between the decontamination and sampling steps. Sampling equipment blank monitors the possibility of cross sample contamination and contamination from the "decontamination" step itself.

- Duplicate soil samples were submitted to the laboratory "blind", to evaluate variation in analyte concentration between samples collected from the same point and/or the laboratory precision in a given matrix.
- 2.2.3 The following QA/QC sample programme was adopted:
 - 8 soil sampling equipment blanks were collected as post decontamination rinsate samples and analysed for arsenic;
 - 9 duplicate soil samples were analysed for the same analytes as the primary samples.
- 2.2.4 The laboratory testing results for duplicate samples and equipment blank are presented in **Appendix D**. Relative percentage difference (RPD) between primary and duplicate soil samples ranged between 0% and 22.2% except for AEDH13 1.5m sample. The RPD of primary and duplicate sample of AEDH13 1.5m sample is 82.9%. The large variation in at soil duplicate is due to the inhomogeneous of the alluvium (i.e. brown and grey colour soil). Photos of the primary and duplicate sample of AEDH13 1.5m sample is provided in **Appendix C**. However, overall soil data quality is considered to be acceptable.
- 2.2.5 Laboratory analysis of the soil equipment blank samples did not detect any presence of the analysed parameters. This indicates that the decontamination of equipment during sampling activities was conducted adequately.
- 2.2.6 All laboratory QA/QC results (including laboratory duplicate, method blank, laboratory control spike and matrix spike) were within the acceptable ranges.
- 2.2.7 Overall field and laboratory QA/QC are acceptable and the data is considered suitable for assessment.

2.3 Arsenic Content in the Project area

2.3.1 From the 191 soil samples analysed, arsenic concentrations ranged between 1 and 1140 mg/kg. Chain of custody and Laboratory Certificates of Analysis are presented in **Appendix D**. A summary of arsenic soil concentrations is provided in **Table 2.2**. Laboratory analysis was conducted by ALS Technichem (HK) Pty Limited (address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong), a HOKLAS accredited laboratory (Registration No.: 066).

Criteria	No. of Samples
No exceedance of RBRGs	67
Rural Residential RBRG (21.8 mg/kg) exceeded	124
Urban Residential RBRG (22.1 mg/kg) exceeded	124
Public Park RBRG (73.5 mg/kg) exceeded	79
Industrial RBRG(196 mg/kg) exceeded	41
NENT NDA EIA Health Risk Screening Level (571 mg/kg) exceeded	9

Table 2.2 Summary of Arsenic Soil Concentrations

Note: (1): Units are milligrams per kilogram (mg/kg)

2.4 Natural Occurrence of Arsenic Soil

2.4.1 Six (6) sampling locations, namely EDH05, EDH06, EDH09, AEDH03, AEDH25 and AEDH29 are located on undeveloped ground which is less likely to be impacted by anthropogenic

activities thus are likely representative of background arsenic concentrations. To support the absence of anthropogenic sources of contamination at each location, historical aerial photos overlain with the as-built borehole locations are presented in **Appendix E** and summarized in **Table 2.3**.

Criteria	Arsenic Content		
	1963:	Agricultural land	
	1973:	Agricultural land	
	1982:	Agricultural land	
EDH05	1993:	Vegetated land	
EDH05	2002:	Vegetated land	
	2006:	Vegetated land	
	2014:	Vegetated land	
	2020:	Vegetated land	
	1963:	Agricultural land	
	1973:	Agricultural land	
	1982:	Agricultural land	
EDH06	1993:	Vegetated land	
EDHUO	2002:	Vegetated land	
	2006:	Vegetated land	
	2014:	Vegetated land	
	2020:	Vegetated land	
	1963:	Access Road	
	1973:	Access Road	
	1982:	Access Road	
EDU00	1993:	Access Road	
EDH09	2002:	Access Road	
	2006:	Access Road	
	2014:	Access Road	
	2020:	Access Road	
	1963:	Pond	
	1973:	Pond	
	1982:	Pond	
AEDH03	1993:	Vegetated land	
AEDH03	2002:	Vegetated land	
	2006:	Vegetated land	
	2014:	Vegetated land	
	2020:	Vegetated land	
	1963:	Vegetated land	
	1973:	Vegetated land	
	1982:	Vegetated land	
AEDH25	1993:	Vegetated land	
AEDH25	2002:	Vegetated land	
	2006:	Vegetated land	
	2014:	Vegetated land	
	2020:	Vegetated land	
	1963:	Vegetated land	
	1973:	Vegetated land	
	1982:	Vegetated land	
	1993:	Vegetated land	
AEDH29	2002:	Vegetated land	
	2006:	Vegetated land	
	2014:	Vegetated land	
	2020:	Vegetated land	

Table 2.3 Observed Land Use at Sampling Locations for Background Arsenic

2.4.2 With reference to the result summary in **Appendix D**, of 56 samples analysed from the six sampling locations 30 results exceed at least one of the post development land use scenario RBRGs. Arsenic concentrations at the six sampling locations considered to be naturally occurring are presented in **Table 2.4**.

Borehole location	Arsenic Concentration ⁽¹⁾
EDH05	16 - 198
EDH06	3 - 608
EDH09	5 – 129
AEDH03	3 – 86
AEDH25	2 – 23
AEDH29	15 -249

Table 2.4 Summary of Arsenic Soil Concentrations for Background Samples

Note: (1): Units are milligrams per kilogram (mg/kg)

2.4.3 According to Geochemical Atlas of Hong Kong in **Figure 60670882/Z9/702**, the arsenic soil content of the Project area ranges between 58 mg/kg and 1080 mg/kg except for the northern tip of the Project area where concentrations are interpolated to be far lower. The detected arsenic content at these 'background' locations agrees with arsenic distribution published in the Geochemical Atlas, therefore arsenic at these locations is considered to be naturally occurring.

2.5 Comparison of Arsenic Level with NENT NDA soil data

2.5.1 With reference to the HIA report of NENT NDA, 389 soil samples were collected within Kwu Tung North. The percentile and average value of the arsenic level in the Project area and NENT NDA EIA are provided in **Table 2.5** for comparison.

Table 2.5Comparison of Arsenic Soil Concentrations in the Project area and
NENT NDA EIA (Kwu Tung North)

Percentile / Average	the Project area ⁽¹⁾	NENT NDA EIA (Kwu Tung North) ^{(1), (2)}		
Maximum	1140	1220		
90-th Percentile	332	323		
80-th Percentile	210	179		
70-th Percentile	128	122		
60-th Percentile	79	88		
Average	130	125		
Medium	59	71		

Note: (1): Units are milligrams per kilogram (mg/kg)

(2): Value extracted from Appendix 8.4 of NENT NDA EIA. A value "23,400 mg/kg" is considered as "Outliner" and is not taken into account.

2.5.2 The maximum detection of arsenic at the Project area is lower than that at Kwu Tung North. It is considered that the arsenic soil concentrations in the Project area and NENT NDA EIA (Kwu Tung North) are similar.

3 HEALTH IMPACT ASSESSMENT FOR ARSENIC CONTAINING SOIL

3.1 Background

3.1.1 High arsenic levels were identified in Kwu Tung North during the course of NENT NDA EIA. Health impact assessment for high arsenic containing soil identified in the Project area will make reference to the NENT NDA EIA. The health impact assessment for arsenic soil exposure with ingestion pathway and inhalation pathway is provided below.

3.2 Health Impact Assessment – Ingestion Pathway

- 3.2.1 The HIA report of NENT NDA adopted minimal risk levels (MRLs) for non-cancer effects via the oral ingestion pathway from the United States Agency for Toxic Substances and Disease Registry (ATSDR) for acute exposures (exposures less than two weeks) and for chronic exposures (exposures greater than one year). The minimal risk level (MRL) is a dose below which non-cancerous harmful effects are not expected. The chronic duration MRL remains in use for deriving soil screening values in the USA and is adopted for this health risk assessment.
- 3.2.2 The final soil screening value of HIA report of NENT NDA is based on chronic exposure because there is no way to prevent future site residents (as the most sensitive receptors) exceeding the acute exposure duration of two weeks therefore adoption of a less conservative (i.e., acute) MRL for this health risk assessment in not appropriate.
- 3.2.3 The arsenic soil screening value was based on non-cancer effects for the oral pathway. It is not necessary to adopt toxicity reference values (TRV) based on cancer effects for the updated health risk assessment.
- 3.2.4 The arsenic soil screening value is calculated using the same methodology as the HIA report of NENT NDA:

Arsenic soil screening value $= \frac{MRL * body weight * 1,000,000}{Amount of soil ingested per day * % absorption}$

Variable	Units	Description
Arsenic soil screening value	mg/kg	Soil screening value for the incidental ingestion pathway
MRL	mg/kg/day	Minimal risk level (MRL) Short-term (Acute) MRL = 0.005 mg/kg/day ⁽¹⁾ Long-term (Chronic) MRL = 0.0003 mg/kg/day ⁽¹⁾
Body weight	kg	Body weight
Amount of soil ingested per day	mg/day	Incidental ingestion rate of soil and dust
% absorption	unitless	Bioavailability 42% (2)

Note: (1): Minimal Risk Levels (MRLs) for Hazardous Substances, Agency for Toxic Substances and Disease Registry, United States, January 2023

(2): HIA report of NENT NDA

3.2.5 Calculation of arsenic soil screening value is provided at **Appendix F**. Based on the result for the ingestion pathway, a threshold soil arsenic level is calculated as **571 mg/kg**.

3.3 Health Impact Assessment – Inhalation Pathway

- 3.3.1 Air modelling and conclusion of acceptable risk via the inhalation pathway will be referenced to the HIA report of NENT NDA.
- 3.3.2 Background arsenic concentrations in air in the Yuen Long area have generally reduced since 2012. An ambient air arsenic concentration of 4.7 ng/m³ in the HIA report of NENT NDA referenced data from Yuen Long Air Quality Monitoring Station from 2008 to 2012. The 2017-2021 average background arsenic concentration from the same station is 2.3 ng/m³ as presented in **Table 3.2**.

Table 3.2Summary of Annual Ambient Arsenic Levels Recorded in EPD's Yuen
Long Air Quality Monitoring Station 2017 - 2021

Arsenic Level	2017	2018	2019	2020	2021
Annual Arsenic Level (ng/m ³)	3.3	2.5	2.2	1.6	1.9
5-year Average Arsenic Level (ng/m ³)	2.3				

3.3.3 The risk level (cancer risk) and daily intake of ambient arsenic (non-cancer risk) for Kwu Tung North in the HIA report of NENT NDA are extracted in **Table 3.3** and **Table 3.4**.

Table 3.3Estimated Risk Levels (Cancer Risk) under Mitigated Scenario in Kwun
Tung North (HIA report of NENT NDA)

	Arsenic Concer	ntration	Overall Risk	% of WHO
Percentile	As in Soil (mg/kg)	As in Air during Construction (ng/m3)	Level	risk level
Maximum	1,220	11.7	8.64 x 10-6	86.4%
95 th percentile	461	7.7	7.77 x 10-6	77.7%
Average	125	5.7	7.34 x 10-6	73.4%
Medium	71	4.7	7.12 x 10-6	71.2%
	orld Health Org		1 x 10-5	100%

Note: Mitigated Scenario means that dust suppression by regular watering per good site practice.

Table 3.4 Daily Intake of Ambient Arsenic (Non-Cancer Risk) under Mitigated Scenario in Kwun Tung North (HIA report of NENT NDA)

	Arsenic Concer	tration		
Percentile	As in Soil (mg/kg)	As in Air during Construction (ng/m3)	Daily Intake (µg/kg/day)	% of MRL
Maximum	1,220	11.7	0.0052	1.7%
95 th percentile	461	7.7	0.0034	1.1%
Average	125	5.7	0.0025	0.83%
Median	71	4.7	0.0021	0.70%

Note: Mitigated Scenario means that dust suppression by regular watering per good site practice.

- 3.3.4 With reference to **Section 2.5.2**, soil arsenic concentrations are similar in the two regions (the Project area and Kwu Tung North). With a 50% reduction of background arsenic ambient arsenic levels, the risk level (Cancer Risk) and daily intake of ambient arsenic (Non-Cancer Risk) in the Project area is expected to be lower and below the World Health Organisation (WHO) risk level (1 x 10⁻⁵) and MRL (0.3 µg/kg/day) respectively.
- 3.3.5 As risk associated with the arsenic inhalation pathway within the Project area is negligible, this pathway is not considered quantitatively.

3.4 Soil Screening Level

3.4.1 Based on the result of Health Impact Assessment for the Ingestion Pathway in **Section 3.2**, a risk based arsenic threshold is calculated as **571 mg/kg**. Soil exceeding the soil acceptance level (i.e. soil with arsenic concentrations exceeding 571 mg/kg) will be referred as High Arsenic Containing soil (HAC soil). Treatment will be required for disturbed HAC soil.

4 MITIGATION MEASURES FOR HIGH-ARSENIC CONTAINING SOIL

4.1 Proposed Mitigation Measures during Construction Phase

- 4.1.1 During the construction phase, workers (particularly those involved in excavation work) may be exposed to HAC soil. To minimize exposure to HAC soil and reduce potential health risk, the Factories and Industrial Undertakings Ordinance (Chapter 59) and its subsidiary regulations should be followed by construction site personnel. The following guidelines should be referred, including:
 - Code of Practice on Control of Air Impurities (Chemical Substances) in the Workplace
 - Air Impurities in the Workplace, General Guides on Occupational Health and Hygiene by Labour Department
 - The Protection of Workers' Health Series Control of Toxic Substances in the Workplace
- 4.1.2 The Contractor should include control measures to minimize arsenic soil exposure in the safety plan. Mitigation measures should include but not be limited to the following:
 - Set up a list of safety measures for site workers;
 - Provide written information and training on presence of arsenic soil for site workers;
 - Keep a site plan (if available) locating HAC soil and stockpiles of excavated HAC soil;
 - Maintain a hygienic working environment;
 - Avoid dust generation;
 - Designated indoor facility should be provided for lunch/break;
 - Hand-washing facility should be provided along with welfare amenities for workers
- 4.1.3 Dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation should be carried out. Specific mitigation measures for excavation and earth moving included the following:
 - Stockpiles of excavated soil should be covered with impermeable sheeting;
 - Imposition of speed controls for vehicles on site haul roads;
 - Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather

4.2 Proposed Mitigation Measures during Operation Phase

4.2.1 Provided further arsenic assessment and treatment (if required) of HAC soil will be implemented with accordance with **Section 5**, a 4m – 8m thick free/treated arsenic zone will be provided underneath further development. This 4m – 8m thick free/treated arsenic zone will provide effective barrier for future users/residents during operation phase and therefore, no mitigation measures is required during operation phase.

5 TREATMENT APPROACH

5.1 General Treatment Approach

- 5.1.1 A screening level of arsenic acceptance level 571 mg/kg will be adopted. Disturbed soil with arsenic concentrations above 571 mg/kg will require treatment.
- 5.1.2 As the arsenic distribution is limited to the borehole information referenced in **Section 2** and with reference to the Geochemical Atlas in **Figure 60670882/Z9/702**, further arsenic assessment should be provided within the Project area prior to development. Treatment for HAC soil is proposed for land uses other than green belt in **Appendix A**.

Green Belt

5.1.3 For "Green Belt", no development of the Green Belt area and no active use at the Green Belt area is anticipated. No treatment is proposed for HAC soil in Green Belt area.

Land uses other than Green Belt

5.1.4 For any excavated HAC soil (i.e. Arsenic concentration >571 mg/kg) encountered during development, these materials should be proper treated with cement solidification/stabilization and/or any other methods as appropriate. The treated materials should be reused in-situ or exsitu as backfilling.

5.2 Detailed Treatment Approach

5.2.1 With reference to previous treatment approach in NENT NDA, a similar treatment approach is proposed. The Government will treat HAC soil in the shallow region before land allocation or land lease. The treatment depth will depend on the future land use per the Revised RODP (Appendix A). Subsequent developers/Works Departments will treat HAC soil in deeper regions during excavations including basement, piling and utilities.

During Site Formation

5.2.2 During site formation, arsenic assessment will be carried out on development areas to the treatment depths stated in **Table 5.1**. The Government will be responsible for the treatment of HAC soil to the proposed treatment depths in **Table 5.1**.

(Ref. Z9-06)

Land Use	Treatment Depth (m) ⁽¹⁾	Assumption
 Residential / Commercial uses: Public Housing Site Private Housing – Zone 1 Other Specified Uses (Mixed Use) – Zone 1 Other Specified Uses (Mixed Use) – Zone 2 Other Specified Uses (Innovation and Technology) Other Specified Uses (Logistics, Storage and Workshop) 	0 - 8	Assuming two levels of underground basement
 Government / Education / Road: Government, Institution or Community Government, Institution or Community (Railway Ancillary Facilities) Education Other Specified Uses (Ventilation Building) Other Specified Uses (Effluent Polishing Plant) Other Specified Uses (Water Reclamation Plant) Other Specified Uses (Green Fuel Station) Other Specified Uses (District Public Transport Interchange) Open Space Amenity Road Other Specified Uses include Refuse Transfer Station, Refuse Collection Point, Resource Recovery Facilities, Electricity Substation, District Cooling System, Sewage Pumping Station, Stormwater Pumping Station 	0 - 4	Assuming one level of underground basement and Clean the soil for most future utility excavation by utility undertakers

Table 5.1 Proposed Treatment Depth during Site Formation

Note: (1): Treatment Depth with respect to the final formation level.

(2): For New Territories Exempted Houses, not more than 3 storeys

- 5.2.3 The site formation Contractor should prepare an Arsenic Assessment Plan (AAP) detailing the site investigation for arsenic for the soil strata between existing ground surface and the proposed treatment depth with respect to the final formation level. The AAP should be submitted for EPD endorsement.
- 5.2.4 After completion of site investigation according to the endorsed AAP, an Arsenic Assessment Report (AAR) will be submitted to EPD for approval. The AAR should report the findings and laboratory results of site investigation and identify if any exceedance of the arsenic soil acceptance level.
- 5.2.5 If HAC soil is identified (i.e., exceedance of the arsenic soil acceptance level) in the AAR, an Arsenic Treatment Plan (ATP) will be submitted to EPD for approval. The AAP shall detail the treatment approach (include treatment method, HAC soil delineation, treatment target, backfilling location). For any excavated HAC soil, these materials should be properly treated and backfilled.
- 5.2.6 During site formation, HAC soil in the treatment depth with respect to the final formation level should be treated with reference to ATP. An Arsenic Treatment Report (ATR) will be submitted to EPD for approval. The ATR should report on the treatment of HAC soil.
- 5.2.7 The ATR should be provided as a reference document for subsequent developer/works departments. It is suggested that treatment requirement for deeper soil should be incorporated

into land lease for later development. The Developer/Works Departments will be responsible for treatment of excavated HAC soil underneath the formation treatment depth.

During Construction of Superstructures

- 5.2.8 When a site is handed over to Developer or Works Departments for superstructure construction, the Developer or Works Departments should provide arsenic assessment where excavation including basements, piling and utilities are required. The Developer or Works Department will be responsible for treatment of excavated HAC soil. The excavated HAC soil should be treated by cement solidification/stabilisation (S/S) and/or any other methods as appropriate.
- 5.2.9 The superstructure Contractor should prepare an AAP detailing the site investigation for arsenic assessment for the excavation limits including basement excavation, utility works, replacement piling, etc.
- 5.2.10 An AAR will be submitted to EPD for approval. The AAR should report the findings and laboratory result from site investigation and identify if any exceedance of the arsenic soil acceptance level.
- 5.2.11 If HAC soil is identified (i.e., exceedance of the arsenic soil acceptance level) in the AAR, an ATP will be submitted to EPD for approval. The AAP should detail the treatment approach (include treatment method, HAC soil delineation, treatment target, backfilling location). For any excavated HAC soil, these materials should be proper treated and backfilled.
- 5.2.12 During construction, excavated HAC soil should be treated with reference to ATP. An ATR will be submitted to EPD for approval. The ATR should report on the treatment of HAC soil.

6 PROPOSED TREATMENT FOR ARSENIC CONTAINING SOIL

6.1 Review On Treatment for Arsenic Containing Soil

- 6.1.1 The possibility of carrying out in-situ remediation and recycling and reuse of remediated materials should be explored first. Ex-situ remedial measures could then be considered if the in-situ remediation is not considered to be practical. Off-site disposal of contaminated materials to landfills should be adopted only as a last resort.
- 6.1.2 The applicable treatment for arsenic containing soil was review and provided in **Table 6-2**.
- 6.1.3 Based on previous study⁽¹⁾, arsenic is not readily leachable. The efficiency of soil washing or electrokinetic separation of arsenic strongly bound to soil is anticipated to be low. For in-situ vitrification, since the groundwater table level in the region is shallow, the application of in-situ vitrification will be limited. Moreover, local experience on in-situ vitrification is also limited.
- 6.1.4 Cement S/S has been proven successful for previous Hong Kong remediation projects and more importantly in Kwu Tung North. The treatment method is simple and treatment requirement (e.g. closure assessment/treatment verification) are well-established in the EPD Practice Guide and with previous project experience.

6.2 **Proposed Treatment for HAC Soil**

6.2.1 HAC soil is proposed to be treated by Cement S/S and followed by in-situ or ex-situ as backfilling.

Outline Operation of Treatment

- 6.2.2 During construction works (site formation or construction of superstructure), if HAC soil is confirmed in the AAR, an ATP should be prepared for the treatment of arsenic. Detailed treatment should be carried out in accordance with the approved ATP. The following **Sections 6.2.4 6.2.13** describe an outline for the treatment operation.
- 6.2.3 The following sections only outline the ex-situ cement S/S treatment. In case in-situ cement S/S treatment and/or any other methods are considered more practical, the contractor should provide detail on in-situ cement S/S treatment in an ATP for EPD approval.

Excavation

6.2.4 Excavation extents for HAC soil should make reference to the AAR and ATP. Clean soil and HAC soil should be separated and stockpiled in designated areas. A closure assessment is required to confirm the completion of excavation.

Closure Assessment

- 6.2.5 Upon completion of excavation, a closure assessment should be conducted. Confirmatory sampling and analysis should be carried out at the limits/sidewalls and base of the excavations to confirm that all the HAC soil has been excavated.
- 6.2.6 Confirmation samples should be collected from sidewalls of the excavation with a lateral spacing of not more than 15m. The depth of sidewall samples should be at the depth where the high arsenic was identified. Confirmatory samples from the bottom of excavations should be collected at grid spacings of not larger than 15m x 15m (i.e. one sample per approximately 225m²). Confirmatory samples will be analysed for arsenic and results compared with the arsenic acceptance level of 571 mg/kg.
- 6.2.7 If the arsenic acceptable level of 571 mg/kg is exceeded, the excavation should be extended in vertical increments of 0.5m and horizontal increments of 7.5m depending on whether the exceeding confirmation sample is collected along the boundary or from excavation base. Additional samples should be collected and analysed until all confirmation samples are below the arsenic acceptable level of 571 mg/kg.

6.2.8 If the confirmation samples are below the acceptable level of 571 mg/kg, removal of soil for treatment should be considered complete and the open excavation can be backfilled with clean fill or treated materials.

Cement Solidification/Stabilization (S/S)

- 6.2.9 Cement S/S will involve mixing the HAC soil with cement, water or other additives. It is recommended on-site pilot-scale trials should be conducted to determine the optimal ratios of cement, HAC soil and any additives, the curing method and time, mixing method and other treatment parameters.
- 6.2.10 Full scale cement S/S should be carried out with reference to pilot-scale trials result. Cement S/S treatment will include pre-treatment screening, cement/additive mixing, curing storage and treated soil storage. Verification sample will be analysed for the effectiveness of treatment.

Verification Sample after Treatment

6.2.11 Verification samples should be collected at a frequency of one sample per 200m³ of treated soil. The verification sample will be tested for the treatment criteria detailed in **Table 6.1**.

Table 6.1 Cement 5/5 Treatment Criteria	Table 6.1	Cement S/S Treatment Criteria	
-----------------------------------------	-----------	-------------------------------	--

Parameter	Reference testing method	Limit
TCLP for arsenic (1)	USEPA Method 1311 and USEPA 6010/6020	Not greater than 5 mg/L (Universal Treatment Standards)
UCS ⁽²⁾	BS 1377 - Methods of test for soils for civil engineering purposes	Not less than 1 MPa

Note:

- 2. No curing duration requirement as long as compliance
- 6.2.12 If the verification sample result does not meet the treatment criteria, the treated soil should be broken up and re-treated by cement S/S. The re-treated soil should be tested for the treatment criteria again to confirm effective treatment.

Handling of Treated Materials

6.2.13 After the verification soil sample demonstrated compliance with the treatment criteria, the treated materials should be broken down to acceptable grain size (250mm) and reused on-site or off-site as backfilling materials.

^{1.} Performed with composite sample

(Ref. Z9-06)

Table 6-2 Possible Remediation Methods for Soil and Groundwater Contamination

Remediation Option	Description	Applicability / Advantages to Environment	Limitations / Disadvantages to Environment
Soil	<u> </u>		
Soil Washing	An Ex-situ soil separation method based on mineral processing techniques. A water- based process to remove contaminants by scrubbing soils ex-situ.	 Applicable to remove inorganic contaminants such as heavy metal from coarse-grained soils. 	 Effectiveness dependent on soil coarseness. Addition of polymer may be required to remove contaminants. The difficulty of formulating washing fluid increases with the complexity of waste mixtures. Further treatment and disposal may be required for the residuals. Limited local experience
Solidification / Stabilization	An Ex-situ immobilisation technique which mixes contaminated soil with binding agents (e.g. cement) so as to physically bind contaminants into stable mass.	heavy metals.	 Hindrance of large boulders in mixing process possible. Soil sorting may be necessary before treatment.
In-situ vitrification	The process electrically melts the waste media, forming a stable glass-like solid matrix.	Short treatment time	 Does not work for in-situ soil with high moisture content/under groundwater level. Requires sufficient glass-forming material in soil (silicon and aluminium oxide) Energy-intensive, requires electricity supply Lack of local experience
Electrokinetic Separation	The principle of electrokinetic remediation relies upon application of a low-intensity direct current through the soil between ceramic electrodes that are divided into a cathode array and an anode array. This mobilizes charged pollutant toward the electrode.	 Most applicable in low permeability soils. 	 Effectiveness dependent on moisture content of soil, ineffective with soil of moisture content less than 10%. Further treatment and disposal required for soil around electrode Lack of local experience

7 CONCLUSION

- 7.1.1 With refence to available ground investigation results, samples from the soil profile within 21 boreholes have been analysed for arsenic. The average arsenic content is 130mg/kg and maximum detection at 1140 mg/kg. The arsenic content in the Project area soil is assessed to be naturally occurring and not as a result of anthropogenic contamination. It is considered that the arsenic soil concentrations in the Project area and NENT NDA EIA (Kwu Tung North) are similar.
- 7.1.2 Based on the Health Impact Assessment for the Ingestion Pathway detailed in **Section 3.2**, a risk based arsenic threshold is calculated as **571 mg/kg**.

Proposed Mitigation Measures

- 7.1.3 During construction of Project, the Contractor shall follow all requirements under the Factories and Industrial Undertaking Ordinance (F&IUO) and its subsidiary regulations. Control measures shall be proposed in a safety plan which shall be fully implemented by the Contractor.
- 7.1.4 Provided further arsenic assessment and treatment (if required) of HAC soil will be implemented with accordance with **Section 5**, a 4m 8m thick free/treated arsenic zone will be provided underneath further development. This 4m 8m thick free/treated arsenic zone will provide effective barrier for future users/residents during operation phase and therefore, no mitigation measures is required during operation phase.

Treatment Approach

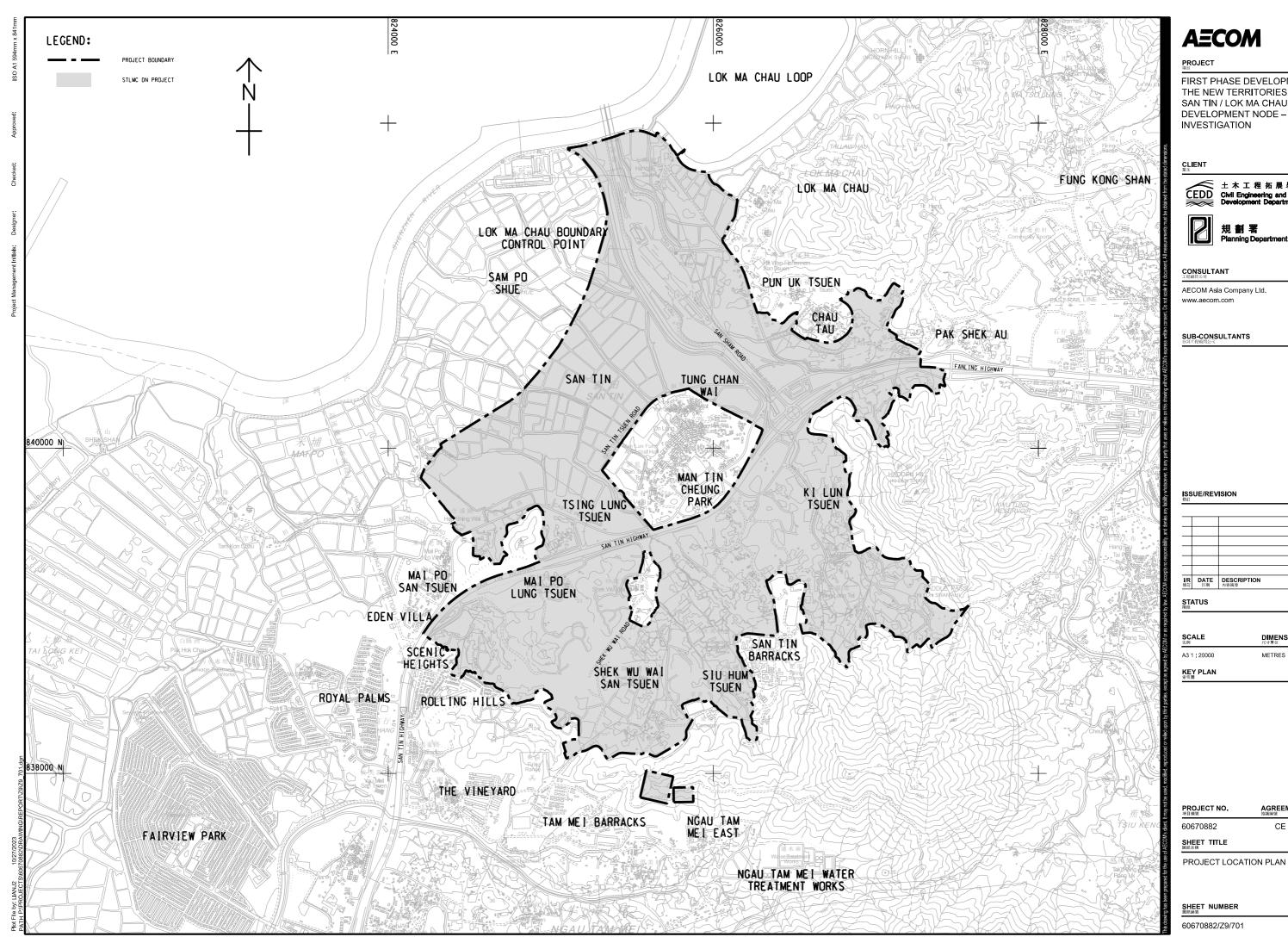
- 7.1.5 HAC soil is proposed to be treated by Cement S/S and followed by in-situ or ex-situ as backfilling.
- 7.1.6 The Government will treat the HAC soil in the shallow region before land allocation or land lease. The treatment depth will depend on the future land use in Revised RODP (per **Appendix A**). Subsequent Developer/Works Departments will treat HAC soil in deep regions for excavations required for basements, piles and utilities.

(Ref. Z9-06)

8 **REFERENCE**

- (1) Li, Jiang-Shan et al. "Arsenic-Containing Soil from Geogenic Source in Hong Kong: Leaching Characteristics and Stabilization/solidification." Chemosphere (Oxford) 182 (2017): 31–39. Web.
- (2) Air Quality Reports Summary of Airborne Species Concentration Derived from RSP, EPD https://www.aqhi.gov.hk/en/download/air-quality-reports0c72.html?start=4

Figures





FIRST PHASE DEVELOPMENT OF THE NEW TERRITORIES NORTH -SAN TIN / LOK MA CHAU DEVELOPMENT NODE – INVESTIGATION

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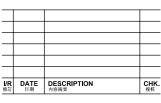


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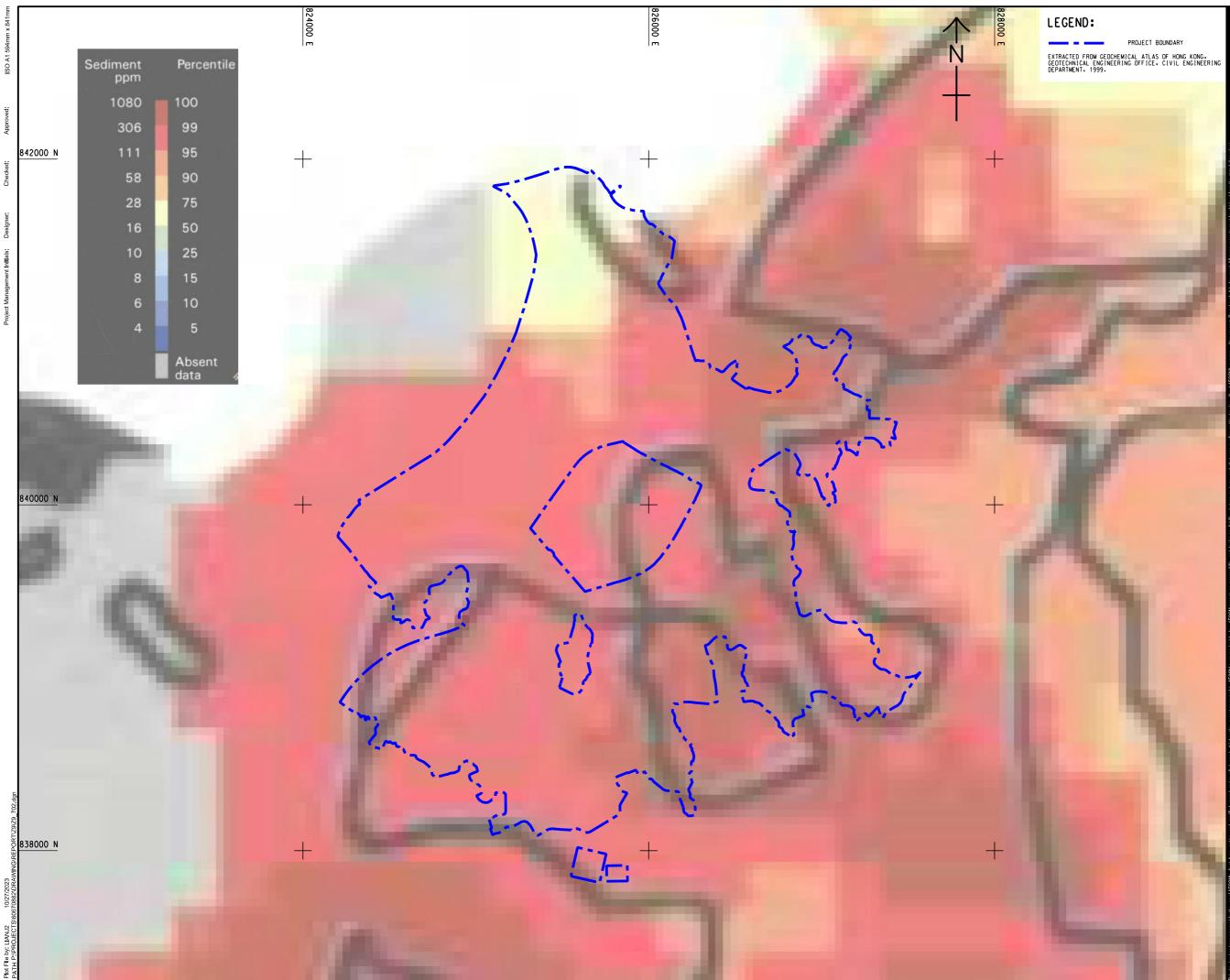
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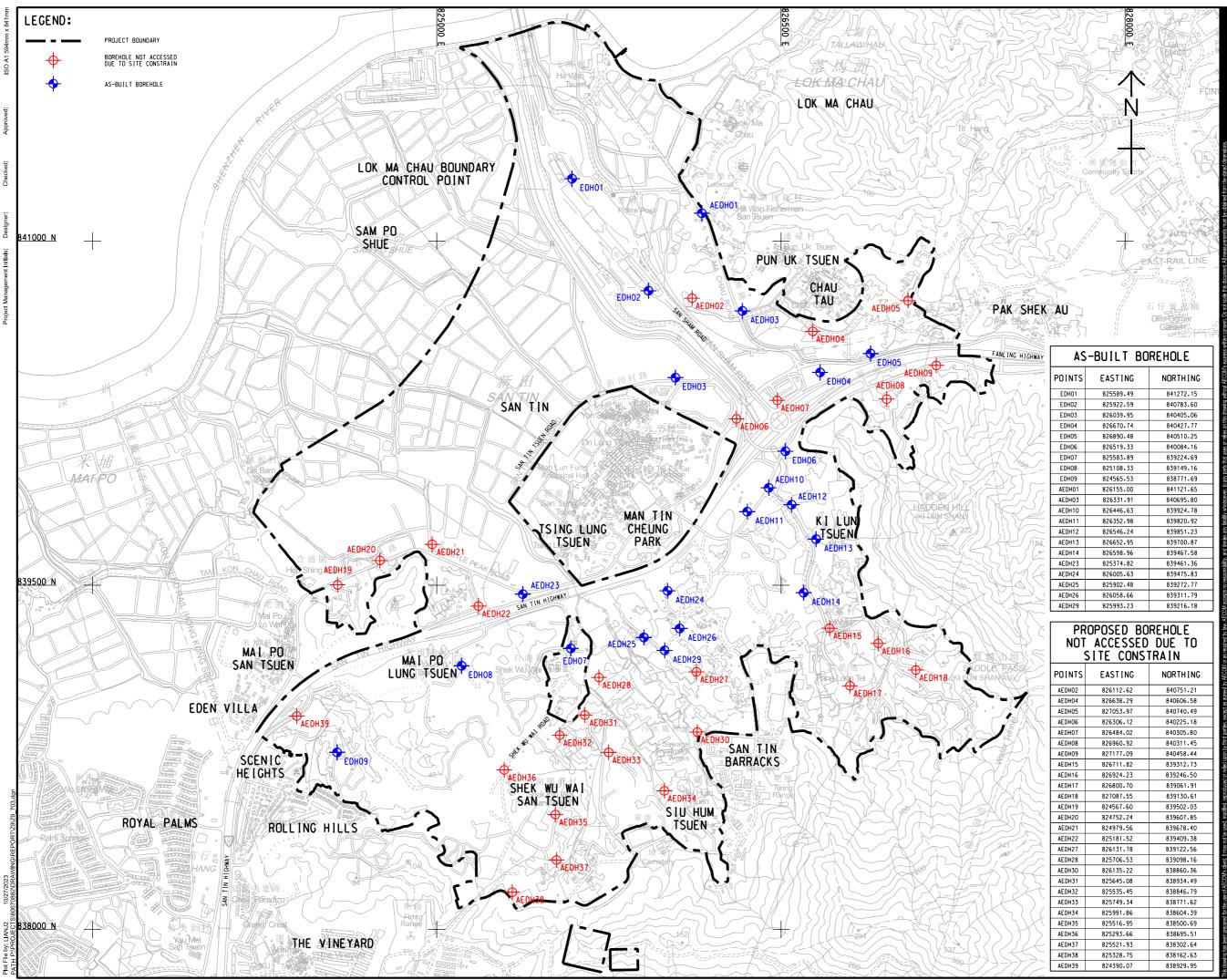
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ARSENIC DISTRIBUTION MAP WITH PROJECT BOUNDARY

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60670882/Z9/702



	00121 00	
POINTS	EASTING	NORTHING
EDH01	825589.49	841272.15
EDH02	825922.59	840783.60
EDH03	826039.95	840405.06
EDH04	826670.74	840427.77
EDH05	826890.48	840510.25
EDH06	826519.33	840084.16
EDH07	825583.89	839224.69
EDH08	825108.33	839149.16
EDH09	824565.53	838771.69
AEDH01	826155.00	841121.65
AEDH03	826331.91	840695.80
AEDH10	826446.63	839924.78
AEDH11	826352.98	839820.92
AEDH12	826546.24	839851.23
AEDH13	826652.95	839700.87
AEDH14	826598.96	839467.58
AEDH23	825374.82	839461.36
AEDH24	826005.63	839475.83
AEDH25	825902.48	839272.77
AEDH26	826058.66	839311.79
AEDH29	825993.23	839216.18

NOT	OPOSED BO	DUE TO
POINTS	SITE CONST EASTING	NORTHING
AEDH02	826112.62	840751.21
AEDH04	826638.29	840606.58
AEDH05	827053.97	840740.49
AEDH06	826306.12	840225.18
AEDH07	826484.02	840305.80
AEDH08	826960.92	840311.45
AEDH09	827177.09	840458.44
AEDH15	826711.82	839312.73
AEDH16	826924.23	839246.50
AEDH17	826800.70	839061.91
AEDH18	827087.55	839130.61
AEDH19	824567.60	839502.03
AEDH20	824752.24	839607.85
AEDH21	824979.56	839678.40
AEDH22	825181.52	839409.38
AEDH27	826131.78	839122.56
AEDH28	825706.53	839098.16
AEDH30	826135.22	838860.36
AEDH31	825645.08	838934.49
AEDH32	825535.45	838846.79
AEDH33	825749.34	838771.62
AEDH34	825991.86	838604.39
AEDH35	825516.95	838500.69
AEDH36	825293.66	838695.51
AEDH37	825521.93	838302.64
AEDH38	825328.75	838162.63
AEDH39	824390.07	838929.95



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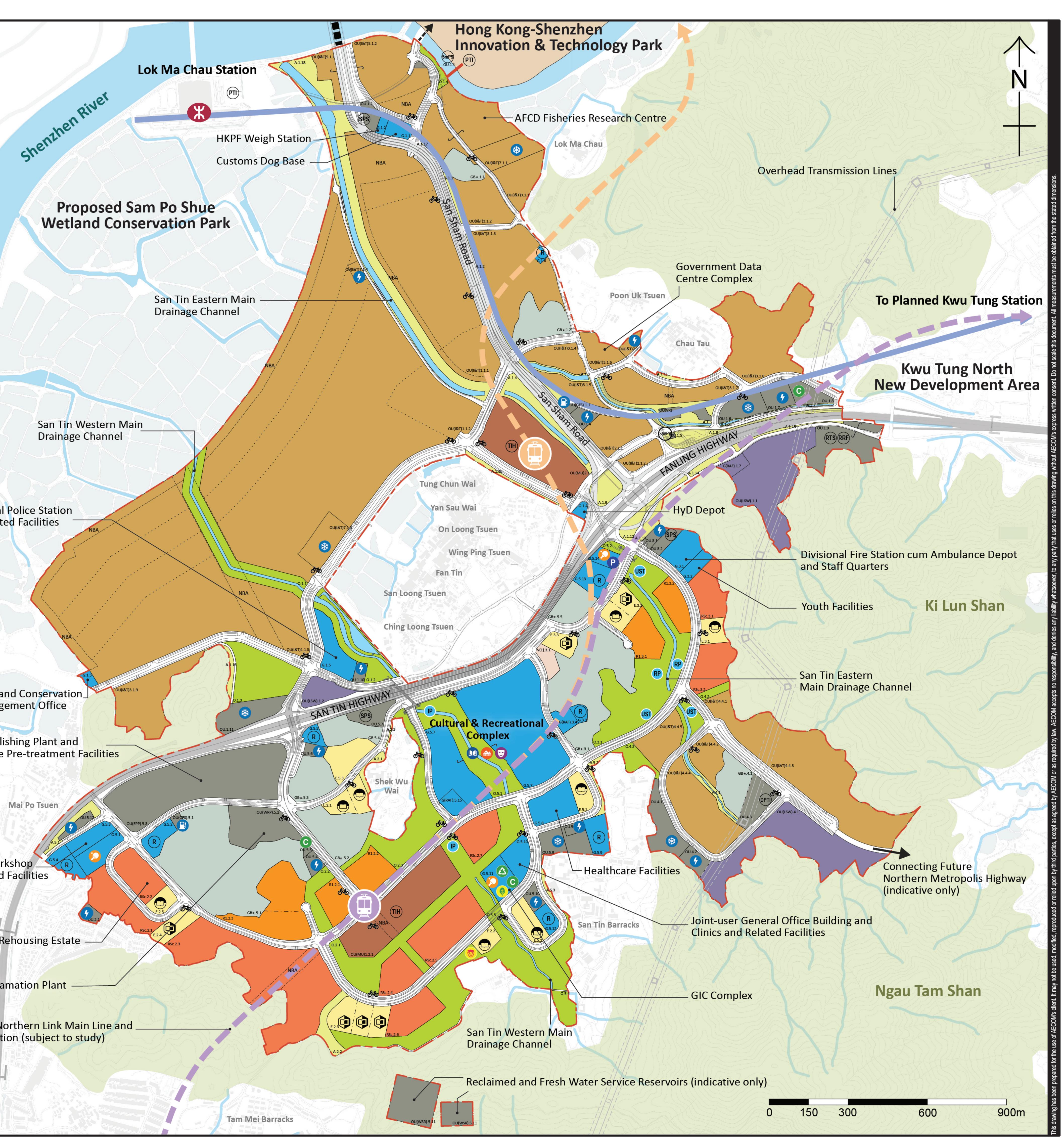
LOCATION PLAN OF ARSENIC BOREHOLE

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Appendix A Revised Recommended Outline Development Plan

	ND		
1	Project Boundary		
	Public Housing		
RSc	Private Housing		
R1	Mixed Use		
MU	Village Type Develo	oment	
V(1)	Innovation and Tecl		
1&T	Logistics, Storage a		
LSW	Other Specified Use	•	
OU			
VB	Ventilation Building		
G		ution or Community	
E	Education		
0	Open Space		
GB	Green Belt (* with	Permitted Burial Ground)	
A	Amenity		
	(Work In Progress)	en Innovation & Technology Park	
=	Road		
	East Rail Line (Lok N	/la Chau Spur Line)	
	Proposed Northern	Link Main Line (subject to study)	
	Possible Alignment (indicative only, sub	of Northern Link Spur Line oject to study)	
	NBA Non-building Area		Divisional Po
	Overhead Transmis	sion Lines	and Related
	Lot Subdivision		
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Revised Recommended Outline Development Plan

SHEET NUMBER 圖紙編號

Appendix B Drillhole Record

秦昇地基工程有限公司 TYSAN FOUNDATION LIMITED (新界集開成員 A member of Tysan Group) PROJECT Advance Ground Investigation Works for S													NTF	RAG		E RE	/202	1/(04)	DRILLHOLE N	No. 1	EDH) 1 4		
			ROT				ives	ligat			D-ORDINATES										JOB No. J2202SF06					
MA	MACHINE / No. XY2B												589. 272.					DATE from 28/11/2022 to 29/11/2022								
FL													ION		Vertic	al					GROUND LEV	EL	+6.20	mP.D.		
Drilling	Casing	depth/size depth/size water Total name Recovery % Recovery % Recovery % R.Q.D. R.Q.D. F.I./Test Depth								Tests			Samples		승 Reduced 엉Level (mPD)	o Depth 8(m)	Legend		Grade			Descript				
	2022 P\	w			57		1 0.36 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -											crete. (FILL) e yellow (2.5Y 7/3) n some gravel of cc e yellow (2.5Y 7/4) ne gravel of concre gravel of concre	e yellow (2.5Y 7/3), silty medium to coarse SAND some gravel of concrete. (FILL) e yellow (2.5Y 7/4), silty fine to medium SAND with e gravel of concrete. (FILL)							
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	10.	.00		-	81					35 bis			5 3 6.9 6.9	45	-3.80	10.00				Suff	r, dark grey (N4), s RINE DEPOSIT)	ILY ULAY I	with Waste	u tyre.		
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•	泰昇地基工程有限公司 DRILLHOLE RECORD														_	DRILLHOLE No. EDH01						
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PROJE	ЕСТ	Adva	ance	Gro	und li	nves	tigati	on Wo	orks for Sa	an T	in / L	ok Ma	a Chau	Develop	ment N	ode						
METHO	OD	RO	ΓAR	Y					CO-C	ORD	INA	TES				JOB No. J2202SF06						
MACHI	INE /	No.	XY2	2B								589.4 272.1				DATE from 28/11/2022 to 29/11/2022						
FLUSH	IING	MEDI	UM		DR	Y			ORIE				Verti	cal		GROUND LEVEL +6.20 mP.D.						
Drilling Progress	Casing depth/size depth/size Mater Mater Recovery % Recovery % Rec								Tests		Samples	<u>.</u>	မ် Reduced ^{ဗ်} Level (mPD)	00 Depth 00 (m)	Legend	Grade		Description				
	HW	end							25 bls		9 9 10	10.00 10.45 10.50 10.50	-3.80				Stif	ff, reddish yellow (5YR 7/8) mottled white, silty AY. (ALLUVIUM) ff, reddish yellow (5YR 7/8), slightly sandy clayey T. (ALLUVIUM)				
Large SPT I U76 U U100	Small Disturbed Sample Standard Penetration Large Disturbed Sample Permeability Test SPT Liner Sample Impression Packer Te U76 Undisturbed Sample Impression Packer Te U100 Undisturbed Sample Persuremeter Test Mazier Sample Standpipe/Piezometer									BARRY YIU DATE 30/11/2022 CHECKED BY						REMA	ARKS	3				
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MAC	HINE /	BB							825						DATE from	28/11	/2022	to 29	/11/2022						
						841																			
FLUS	FLUSHING MEDIUM DRY											ION		Vertic	al	1			GROUND LE	VEL		+6.20	mP.D.		
Drilling Progress	Casing depth/size	level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests		Samples			는 Reduced 영 Level (mPD)	0.00 Depth 0.00 (m)	Legend Grade			Description						
• Sm	Longress Water (m) Water (m) (m) (m) (m) (m) (m) (m) (m)										21 11 12 21 13 14 22 OGGG		<u>23.80</u>		• • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • •		dec	eak, brownish yell composed coarse AVEL in a matrix	ash c	rystal T	UFF. (Sa	andy			
1 Lai	Large Disturbed Sample										BARRY YIU							ARKS	5						
	PT Liner S 6 Undisti		ample	-				acker viewe	Test r Test	20/11/2022															
U1	00 Undis	turbed S			Pr	essur	emete	r Test				HECH		BY											
Pis	azier Sam ston Sam	ole		`	/ In-	situ V	ane S	shear [.]	ter Tip Test		D	DATE		2											
▲ Wa	ater Sam	ble		>	< Inc	clinom	eter T	est																	

泰昇地基工程有限公司											וסי		Ц				וסי	DRILLHOLE No. EDH01							
·H	JUN	有 K NDA of Tysa	TIC	DN	LIM	ITED	L					E RE				SHEET	4		of	4					
PROJ	ECT	Adva	ance	Gro	und l	Inves	tigat	ion V	Vorks fo	or Sar	n Tin	/ Lok	Ma	Chau I	Develop	ment N	ode								
METH	IOD	RO	ΓAR	Y					С	D-OF	RDIN	IATE	s						JOB No. J2202SF06						
MACH	HINE /	No.	XY2	2B							825							DATE from 28/11/2022 to 29/11/2022							
FLUS			DR	~					N 841			5 Vertio			GROUND LE				mP.D.						
																	OROUND EL			10.20	III .D.				
Drilling Progress	Casing depth/size	level (m) Shift start/ end	Water Recovery 9	Total core Recovery	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests		Samples			ର୍ଜ୍ଜ Reduced ଝ Level (mPD) ଝ Depth ଞି (m)		Legend	Grade			Desc	criptic	on			
-29/11/2022	30.45 HW			1 5/					202 bls	;		3 15	0.00 0.40 0.45	-23.80	- 30.45		V	con	tremely weak, brown pletely decompo- iff, sandy clayey S	sed coa	ellow (arse as	(10YR 6/8 sh crystal), TUFF.		
-												3	0.45						d of drillhole at 30.						
-																									
-																									
-																									
● Sm Lan	l andar ermea			on Test			.ogg Barr			<u> </u>		REM	ARKS	3											
SP'	Γ Liner S				Im	press	ion P	acker	Test er Test		-	DATE 30/11													
U10	0 Undis	turbed S		le	Pr	essur	emete	er Tes	st			CHECI FED Y		BY											
Pist	Piston Sample V In-situ Vane Shear Test											DATE 01/12	/202	22											

CONTRACTOR H TYSAN FOUNDATION LIMITED

CONTRACT NO. ND/2021/04

PROJECT : ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT NODE



PROJE	T` (秦	异集团成	IFC JAn	DUN	IDA of Tysar	TIC n Group) N		I T E D /orks for		со	NTR	ACT	No	E RE p. ND/ Developn	2021	/04	D	DRILLHOLE No. EDH02 SHEET 1 of 4
METHC		ROT No.							CO	E :	825	ATES 5922.5 0783.6	59						JOB No. J2202SF06 DATE from 29/12/2022 to 06/01/2023
FLUSH					DR				OR	IENT	ΤAΤ	ION	Ve		al				GROUND LEVEL +6.13 mP.D.
	Casıng depth/size	Water level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples	+ B+ Reduced		o Depth 8 (m)	Legend	Grade		
29/12/2022 30/12/2022	PW -	Dry at 08:00		1 St					58 bis	INSPECTION PIT		0.5 3 0.9 1.0 5 1.4 1.5	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	33	6.00			Bro to to	bwn (10YR 5/3), sitty SAND with some angular avel of concrete. (FILL) bwn (10YR 5/3), sandy clayey SILT with some fine medium gravel of concrete. (FILL) fl, dark grey (10YR 4/1), sitty CLAY. (MARINE POSIT)
 Small Large SPT L U76 U U100 Mazien Piston 	l Disturi Disturi Liner Sa Jndistu	rbed Sa urbed S ble le	mple ample	e	Pe Im Bo Pre Sta	ermea press prehol essur andpi situ \	bility ion P e Tele emete pe/Pie	Test acker eviewe er Tes ezome Shear	r Test t ter Tip			OGGED ARRY ` ATE 08/01/20 HECKE ED YIP ATE 09/01/20	DEY YIU D23 D BY					ARKS	S pit excavated from 0.00m-2.00m.

PROJ	T (*	¥昇地 YSAN ^{#昇集團成} Adva	J FC)UN	IDA of Tysar	TIC n Group			I T E D	С	ONT	ſRA	ACT N	E RE o. ND/ Developn	20	21/	/04	D	DRILLHOLE No. EDH02 SHEET 2 of 4
METH		R01							_	ORDII E :82(N: 84(5922	.59						-	JOB No. J2202SF06
FLUS					DR	Y				ENTA			Vertic	al					GROUND LEVEL +6.13 mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth			Samples		승 Reduced 영Level (mPD)	0 Depth 0 (m)		regena	Grade		Description
	HW			100					81 bis	Ņ	5	10.00 10.45 10.50					V	com	emely weak, light reddish brown (5YR 6/4), pletely decomposed meta-SILTSTONE. (Very sandy SILT)
				80	0	0	NA	11.50		↑ T2-10)1	11.50 12.00	-5.37 -5.87	<u>11.50</u> 12.00		0	IV	deco _with Extre	erately weak, light reddish brown, highly mposed meta-SILTSTONE. (Sandy GRAVEL boulder of quartz) emely weak, light reddish brown (5YR 6/4),
30/12/2022 31/12/2022		3.58m at 18:00 6.00m at 08:00					NA	18.20	172 bis		8	15.00	-12.07	-			V	stiff,	pletely decomposed meta-SILTSTONE. (Very sandy SILT)
				¢	0	0	NR	18.50 18.70		T2-10		18.70	<u>-12.37</u> - 12.57	<u>18.50</u> 18.70			v	highl GRA 18.50 com	y decomposed meta-SILTSTONE. (Sandy VEL) 0- 18.70m: No recovery, assumed to be pletely decomposed meta-SILTSTONE.
		3.71m											-13.87				v	Extre deco SILT	emely weak, light brown (7.5YR 6/3), completely mposed meta-SILTSTONE. (Very stiff, sandy)
 ↓ Larg ↓ SP1 ↓ U76 ↓ U10 ↓ Maz ↓ Pist 	all Distu ge Distu F Liner S Undistu 00 Undis zier Sam on Sam ter Sam	rbed Sa Sample urbed Sa turbed S ple ple	mple ample	e _	Pe Im Bo Pre Sta	ermea press prehol- essur andpi situ V	bility 1 ion Pa e Tele emete pe/Pie	Test acker eviewe er Tes ezome Shear	r Test t ter Tip		LOGG BARF DATE 08/0 CHEC TED DATE 09/0	1/202 KED	Ш 23 ВҮ			F	REMA	ARKS	

PROJE	T (3	条异集团成	J FC 員 Am	DUN nember o	DA7 f Tysan	F I O Group	N LIM			CON	ITR/	IOLE ACT N a Chau E	o. ND/	202	1/(04	DRILLHOLE No.EDH02SHEET3of4
METH	IINE /		CCL	8					E : N:	RDINA ⁻ :82592 84078	2.59 3.60						JOB No. J2202SF06 DATE from 29/12/2022 to 06/01/2023
Progress	Casing depth/size	MEDI level (m) Shift start/ end	-		Solid core Recovery %		Fracture Index F.I. / Test Depth	Tests	IEN	DITATI Samples		Vertic (Campon Level (mPD) -13.87	⊠Depth ∞(m)	Legend		Grade	GROUND LEVEL +6.13 mP.D.
31/12/2022 03/01/2023 - - - - - - - -	22.30	at 12:50m at 08:00	1	0	30	0	20.20 NA 13.3 20.55 20.70 NA 21.10 NR 21.46	226 bls		9 T2-101 T2-101	20.00 20.13 20.16 20.20 20.70	-14.07 -14.42 -14.57 -14.97	20.20 20.55 20.70 21.10			V A IV dd III w IV 21 V dd V V V	s Sheet 4 of 4. loderately weak, light yellowish brown, highly ecomposed meta-SANDSTONE. (Sandy GRAVEL ith some cobble) 0.55- 20.70m: Moderately strong, moderately ecomposed. 1.10- 21.46m: No recovery, assumed to be pompletely decomposed meta-SILTSTONE. /ash boring, assumed to be completely decomposed leta-SILTSTONE.
03/01/2023	HW	3.72m at 18:00		84	_	40 96	22.30 5.5			T2-101	22.30 23.42		22.30			M de m ai	leta-SiLTSTONE. loderately strong, light grey to grey, moderately ecomposed meta-SILTSTONE. Joints are closely to ledium, locally very closely spaced, smooth planar nd undulating, extremely narrow, iron oxide stained, pping at 10°-20°, 20°-30° and 40°-50°.
05/01/2023 		6.00m at 08:00 3.40m at 18:00 7.58m at 08:00		196	32	16	>20,25,01 25,08 2.9 25,43 7.4 25,70 NA 25,90 12.3			T2-101	24.72 25.70 26.32	<u>-19.57</u> -19.77	<u>25.90</u>	20		(5	5.70- 25.90m: Moderately weak, highly decomposed. Sandy COBBLE)
				91	90	76	NA 26.96 27.18 16.7 5.0 27.91 5.0 28.31 10.3 28.89 5.3			T2-101	27.66 28.67	-21.05				20	6.96- 27.18m: Moderately weak, highly decomposed. Sandy GRAVEL)
 ↓ Large ↓ SPT ↓ U76 ↓ U100 ↓ Mazi ↓ Pisto 	e Distu Liner S Undistu	urbed Sa turbed S nple ple	mple ample		Star Perr Imp Bore Pres Star In-s	69 ndaro meat ressi ehole ssure ndpip	5.3 10.1 ^{29.83} d Penetratio bility Test on Packer e Televiewe emeter Tes be/Piezome ane Shear eter Test	Test r Test t ter Tip		BAF DAT 08/ CHE TEL DAT	01/20 CKED YIP	-23.87 BY 1U 23 D BY	 		RI	EMARK	íS

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PROJ	ECT	Adva						ion V	Vorks for	Sar	n Tin / Lok Ma									
METH		RO	TAR	۲Y					co)-OF	RDINATES						JOB No.	.122()2SF06	
										Е	:825922.59									
MACH	HINE /	No.	CCI	L-8						N:	840783.60						DATE from 29/12	/2022	to 06/	01/2023
FLUS	HING				DR'		1	<u> </u>	OR		ITATION	Vertio	cal	1		1	GROUND LEVEL		+6.13	mP.D.
Drilling Progress	Casing depth/size	level (m) Shift	er overy %	Total core Recovery %	d core overv %	Ŀ.	sture ex	F.I. / Test Depth	ş		Samples	ର୍ଜ Reduced ଝ Level (mPD)	bth	pue	le		Des	scriptio	on	
Drilli Prog	Cas dept	start/ end 3.40m	Wate Reco	Z Tota Rec	Soli Rec	R.Q.D.	Frac	F.I. / Dep	Tests		Sam	₩ -23.87	0 (m)	Legend	Grade	Δς	Sheet 3 of 4.			
 06/01/2023		at 18:00		100	85	69	10.1	30.52			T2-101	-24.39	30.52		ш					
																En	d of drillhole at 30.52m.			
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	all Distu ge Distu			-	•	andaı ermea			on Test		LOGGED I BARRY Y				REM	ARKS	5			
	T Liner S 3 Undistu		ample	-	[Im			acker eviewe	Test er Test		DATE 08/01/202	23								
U10	00 Undis	turbed S		le	Pr	essur	emet	er Tes	t		CHECKED TED YIP	BY								
Pist	zier Sam on Sam	ole		`	∕ In-	-situ \	/ane \$	Shear	eter Tip Test		DATE	 >2								
▲ Wa	ter Sam	ble		>	< In	clinon	neter [:]	Test			09/01/202	-0								







	HOLE NO .: EDHO2 BOX NO .: 4 OF 4 END	
	DEPTH: 27.66 m TO 30.52 m	
	DATE OF PHOTOGRAPH : 10-01-2023	
		Station Block
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		YSAN ^{後昇集團成}						LIMI	ITED		СС	DNT	RA	CT N	o. ND/	2021	/04		SHEET		of	4
PRC	JECT	Adva	ance	Grou	und I	nves	stigat	ion W	orks for	San	Tin /	/ Lok	(Ma	Chau D)evelopr	ment No	ode					
MET	HOD	RO	TAR	Y					со	-ORI	DIN	IATE	ΞS						JOB No.	J220)2SF06	
MAG	HINE /	No		<u></u>						E	826	6 039	9.95	5					DATE from 11/01/	2022	to 12	/01/2022
MAC		INO.	DR-	23					_	Ν	840) 40	5.06	6					DATE from 11/01/	2023		/01/2023
FLU	SHING				DR				OR	IENT	ΓAT	ION	1	Vertic	al	1			GROUND LEVEL		+4.32	mP.D.
Drilling Progress		level (m) Shift start/ end	er overy %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		t Reduced K Level (mPD)	o Depth 8(m)	Legend	Grade			criptic	on	
11/01/202	23 SW 2.00 SW PW			108					13 bis		•	B C 1 2	0.45 0.50 0.95 1.00 1.45 1.50 1.95 2.00 3.00	+2.82	- 0.10 			Da sor fra	NCRETE. rk yellowish brown (10YF ne angular to subangula gments. (FILL) llow (10YR 7/4), silty CL/	r grave	I of conc	rete
	223			89					9 bis				3.45 3.50									
12/01/202	10.00			1 KB					15 bls			5	6.00									
• s	PW mall Distu	rbed Sa	 mple		Sta	l andaı	l rd Pei	netratio	on Test			OGG			- 10.00			 ARKS				
÷	arge Distu PT Liner S		mple	Ì	-		bility sion P	Test acker ⁻	Test		_	BARR	RY YI	U		1	. Insp	ection	pit excavated from 0.00m-1.50)m.		
Ū U	76 Undist	urbed Sa		-	Во	rehol	le Tel	eviewe	r Test		-	14/01										
=	100 Undis lazier San		Sampl	e _				er Test ezomet						BY								
P	iston Sam	ple		~	/ In-	situ \	/ane	Shear ⁻				DATE 15/01	/202	3								
– W	/ater Sam	pie		X	< Inc	unon	ieter	IESI														

PRC	1 1	条 昇 地 「YSAN ^{泰昇集團成} Adva	JF(員An	DUN	NDA of Tysar	TIC n Group				С	ON	TR/	OLE ACT No a Chau E	o. ND/	2021	/04	D	DRILLHOLE No	р. 2	EDH()3 4
	HOD	RO							CO-C	DRDI E 82			5					JOB No.		02SF06	
				-						N 84				-1				DATE from 11/			2 mP.D.
Drilling Progress	Casing depth/size				Solid core Recovery %		Fracture Index	:.I. / Test Depth	ORIE		Samples		Vertic ⁶⁻ Reduced ⁸⁰ Level (mPD)	a 00(m)	Legend	Grade		GROUND LEVE	Descripti		2 mP.D.
	HW	end							21 bls		9	10.00 10.45 10.50 15.00 15.45 15.50	-10.68	15.00	┑╟╎╴┥┝╎╸┥╵┥┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝		Extr	Sheet 1 of 4.	ish yellow d coarse a	(10YR 6 Ish crysta	/8), al TUFF.
↓ L S U U U N P	mall Distu arge Distu PT Liner \$ 76 Undist 100 Undist lazier San iston Sam /ater Sam	Irbed Sa Sample urbed Sa sturbed S nple uple	mple ample		Pe Im Bo Pre Sta	ermea press prehol essur andpi situ \	bility 1 ion Pa e Tele emete pe/Pie	acker T eviewer er Test ezomete Shear T	est Test er Tip		CHEC TED DATE	RY Y E 1/202 CKED YIP	IU 23 BY			REMA	ARKS				

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PRO	JECT				-			on W	/orks fo	r Sar					Developr								
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	HOD	RO	IAR	(Y						-0F F	826			5					JOB No.		J220	2SF06	
MAC	HINE	No.	DR	-23							840								DATE from 1	1/01/20)23	to 13/	01/2023
FLU	SHING				DR				OF		TAT	101	N	Vertic	al	-	_		GROUND LEV	/EL		+4.32	mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/ end	Water Recoverv %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		남 Reduced 엻 Level (mPD)	05 Depth 03 (m)	Legend	Grade			Desci	riptic	n	
Ē				100					39 bls			11	20.00	-10.00				As	Sheet 2 of 4.				
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j si	PT Liner S	Sample		2	I Im	press	ion Pa	acker			-	DATE											
U	76 Undist 100 Undis			-	÷		e Tele emete		er Test t		-	CHEC	CKED										
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	ston Sarr ater Sam						/ane S neter 1		ายรเ				1/202	23									

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PRO	JECT							ion V	Vorks fo	or Sar					Develop				I		
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MEI	HOD	RO	IAR	Υ							RDIN E 826			5					JOB No. J2	202SF06	
MAC	HINE	' No.	DR-	-23							840								DATE from 11/01/202	3 to 13	/01/2023
FLU	SHING				DR				OF		ITAT	ION	1	Verti	cal				GROUND LEVEL	+4.32	mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift	er overy %	al core covery %	Solid core Recovery %	R.Q.D.	cture ex	F.I. / Test Depth	sts			Samples		났 Reduced 엻 Level (mPD)	spth	Legend	de		Descrip	otion	
Pro	Cas dep	start/ end		//	Rec Rec	R.0	Pra Inde	F.I. Der	Tests			:	30.00	9 2 -25.68	- 0.00 0(m)		Grade	As	Sheet 2 of 4.		
- 13/01/202	30.50 3 HW			100					36 bls			15 16	30.40 30.45	-26.18	30.50				d of drillhole at 30.50m.		
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j si	PT Liner S	Sample		-	[Im	press	ion P	acker			-	DATE 14/01									
U	76 Undist 100 Undis			-	<u>_</u>			eviewe er Tes	er Test it		-	CHEC									
Øм	azier San	nple		ć	Sta	andpi	pe/Pie	ezome	eter Tip]	ר DATE									
_	ston Sarr ater Sam					-situ V clinom		Shear Test	rest			15/01	/202	23							

CONTRACT NO. ND/2021/04 PROJECT : ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT NODE

HOLE NO.: EDHO3DEPTH: OOO m TO 30.50 m DATE OF PHOTOGRAPH: 16-01-2023 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m 0.5m0.



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·H	Т Т	表昇地 YSAN	FC	DUN	DA	TIC	DN	LIMI	TED	D				E RE			J	SHEET	1	1	of	4
PROJ					-			ion W	orks fo	r San				Develop								
		ROT		v														JOB No.		1000)2SF06	
METH	100	RUI		Y								ATES 670.7	4				-	JOB NO.		JZZU	J25F00	
MACH	HINE /	No.	CCI	1								427.7						DATE from	26/08/	2022	to 29	/08/2022
FLUS	HING				DR۱		1		OF	RIEN	ΤΑΤΙ	ON	Verti	cal				GROUND LE	VEL		+6.09	mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests		Samples	Campio	÷ Reduced ଜ Level (mPD)	o Depth 8 (m)	Legend	Grade			Des	criptio	on	
-26/08/2022 	PW									WOLCHINA DI		0.45	+5.89	<u> </u>		XX		PHALT. rk grey (N4), ang arse GRAVEL siz	jular to	suban	gular me	dium to
										-	T2-101	0.43 0.50 0.55	+5.54	- 0.55		XXXX	\frag	arse GRAVEL Siz gments. (FILL) rk grey (N4) dapp				/
-										-		1.25	+4.84	- 1.25		X X X X	son	me coarse gravel m, black (N2.5) d	sized tu	uff. (FIL	_L)	
				100					13 bls		1	1.50				XXXX	with	h occasional subi	rounded	d fine g	ravel. (F	ILL)
) 2	1.95 2.00		- - -								
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-		1.50m		/							8	6.00		-		×××						
- 26/08/2022 27/08/2022		at 18:00 1.80m		100					17 bls) ⁵	6.45 6.50		Ē		XXX						
		at 08:00																				
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	10.00 PW												-3.91	10.00								
	all Distu	rbed Sar					d Per		on Test			GGED I	BY				ARKS	Contraction of the second second second second second second second second second second second second second s	.00m-0.5(0m.		
SP ⁻	T Liner S			I	[Im	press	ion P	acker ⁻			DA	TE 5/09/202				P						
U10		urbed Sa sturbed S			_			eviewe er Test			CH	IECKED										
🛛 Mai	zier Sarr ton Sam	nple						ezomet Shear ⁻														
	ter Sam						neter ⁻					7/09/202	22									

PR	OJE	T (秦	昇集團成	J F (員 Ar	DUN	JDA of Tysar	TIC n Group			I T E D /orks for		со	NT	RA	CT N	E RE o. ND/ Developr	2021	/04	D	DRILLHOLE No.EDH04SHEET2of4
	THC		ROT No.							co	E	DIN/ 826 840	670).74						JOB No. J2202SF06 DATE from 26/08/2022 to 29/08/2022
FL			MEDI Water			DR۱				OR		TATI	ION		Vertic	al				GROUND LEVEL +6.09 mP.D.
Drilling		depth/size	level (m) Shift start/ end	Water Recoverv %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		b. Reduced 요 Level (mPD)	⊟ Depth 8(m)	Legend	Grade		Description
		HW	1.50m at 18:00 at 08:00							181 bis			0 15 0 15	5.00 0.45 0.50 5.00 - 5.45 5.50	-8.91	15.00			sor (AL	le brown (10YR 6/5), medium to coarse SAND with me subangular fine gravel sized quartz. LLUVIUM) tremely weak, light grey (N7) dappled yellowish own, completely decomposed coarse ash crystal IFF. (Stiff, clayey SILT)
↓ 	Large SPT L U76 U	Distur Liner S Jndistu	bed Sar bed Sar ample irbed Sa turbed S	mple ample		Pe Im Bo	rmea press rehol	bility 1 ion Pa e Tele	Fest acker ⁻	r Test			DGGE ARR` ATE 6/09/ HECK	<u>Y YI</u> /202 KED	8Y U 22		F	REMA	ARKS	3
	Piston	er Samp n Samp r Samp	ble		`	/ In-	situ V		Shear	ter Tip Test		D	ED Y ATE 17/09/		2					

TYS (泰昇集	早地基工 SAN FO ^{集團成員 Amere Advance C}	UNDA mber of Tysar	TION Group)	LIMI	TED		NTR/	ACT N	o. ND/	2021/	/04	DRILLHOLE No. EDH04 SHEET 3 of 4
	ROTARY				_	DRDINA		4				JOB No. J2202SF06
MACHINE / No						N 840 -		7				DATE from 26/08/2022 to 29/08/2022
		DR'			ORIE		ON	Vertic	al			GROUND LEVEL +6.09 mP.D.
'illing ogress asing spth/siz	Nater Water Recovery %	Recovery % Solid core Recovery %	R.Q.D. Fracture	Index F.I. / Test Depth	Tests	Samulas		ମ୍ମ Reduced ଓ Level (mPD)	8 Depth 8(m)	Legend	Grade	Description
30.09 a	50m at				98 bis		25.00 25.45 25.50	-19.41			v	Extremely weak, grey (N6), completely decomposed coarse ash crystal TUFF. (Stiff, clayey SILT)
Small Disturbed Large Disturbed SPT Liner Sam U76 Undisturbe U100 Undisturbe Mazier Sample Piston Sample	d Sample nple ed Sample bed Sample	Fe Fe Im Im Bo Pre A Sta	rmeabili pressior rehole T essurem andpipe/	Penetratio ty Test Packer 1 eleviewer eter Test Piezomet e Shear 1	ēst Test er Tip	BA DA 00 CH TE	IGGED I NRRY Y TE 3/09/202 IECKED D YIP TE	IU 22		F	REMAF	RKS

			2000												יסו		DRILLHOLE	No.		EDH04	4
	■ 素 ■ T		I FC	JUN	NDA	現公 TIC	DN	LIM	ITED		ILLH ONTR/					D	SHEET	4		of	4
PRO	JECT				-			ion V	Vorks fo	or San Tir							1				
METI		RO	TAR	Y					C	D-ORDII	NATES						JOB No.		J220	02SF06	
											6 670.7										
MAC	HINE /	No.	CCI	L-1					_	N 84	0 427.7	7					DATE from	26/08/2	022	to 29/	08/2022
FLUS	HING				DR'		1	1			TION	Vertio	al				GROUND LE	VEL		+6.09	mP.D.
Drilling Progress	Casing depth/size	level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests		Samples	ର୍ଜ Reduced ଓ Level (mPD)	6 Depth 0 (m)	Legend	Grade			Desc	criptio	on	
-29/08/2023		18:00		0		-			200 bis			-24.00	<u>30.00</u> - 30.09				Sheet 3 of 4. d of drillhole at 30) 09m			
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– ● Sn	nall Distu	I Disturbed Sample Standard Penetration Test LOGGED BY Exception 100 mm mm mm mm mm mm mm mm mm mm mm mm m													l REM	 ARKS	3				
1.4	-	Disturbed Sample Impression Packer Test BARRY YIU Liner Sample Impression Packer Test DATE																			
N U7	6 Undist	Undisturbed Sample Televiewer Test 06/09/2022																			
🛛 Ma		0 Undisturbed Sample Image: Pressuremeter Test CHECKED BY ier Sample Image: Standpipe/Piezometer Tip Image: TED YIP																			
Pis	ton Sam ater Sam	Indisturbed Sample Image: Borehole Televiewer Test 06/09/2022 Indisturbed Sample Image: Pressuremeter Test CHECKED BY Sample Image: Standpipe/Piezometer Tip TED YIP Sample Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Im																			



CONTRACT NO. ND/2021/04 PROJECT : ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT NODE

HOLE NO.: EDH04 BOX NO.: OF DEPTH: 0.00 m TO 30.09 m DATE OF PHOTOGRAPH: 31-08-2022

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PRO	T (i	条异集团成	J FC)UN Iember	NDA of Tysa	TIC n Group	DN		I T E D Vorks for		CON	ITR/	ACT N	E RE lo. ND, Developi	/2021	/04	ך כ	DRILLHOLE No. SHEET 1	EDH05 of 4
METH		RO No.							со		326 8	TES 390.4 510.2						JOB No. J220 DATE from 16/08/2022	2SF06 to 18/08/2022
FLUS	HING	MEDI	UM		DR	Y			OR				Verti	cal				GROUND LEVEL	+4.55 mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests		Samples	<u>-</u>	t Reduced 양 Level (mPD)	o Depth 8 (m)	Legend	Grade		Descriptio	
16/08/2022	PW 7.00 PW HW	0.20m at0 0.58m at08:00							15 bls 59 bls	Netrotty FI	 A B C 1 2 3 4 	0.45 0.50 1.00 1.45 1.55 2.00 3.00 3.45 3.50 6.00 6.50	+3.05	6.00			Yello some	tish brown (5YR 5/4), sandy c a rootlets. (FILL) wish brown (10YR 5/4), sandy a rootlets. (FILL) grey (N7), subrounded mediu VEL sized quartz. (ALLUVIUN VEL sized quartz. (ALLUVIUN where the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of	y clayey SILT with
↓ Lar SP' U76 U10 Ma Pis	Small Disturbed Sample Standard Penetration Test LOGGED E Large Disturbed Sample Permeability Test BARRY Y SPT Liner Sample Impression Packer Test DATE U76 Undisturbed Sample Pressuremeter Test CHECKED U100 Undisturbed Sample Pressuremeter Test CHECKED Mazier Sample Standpipe/Piezometer Tip TED YIP Piston Sample In-situ Vane Shear Test DATE Water Sample X Inclinometer Test 20/08/202													E 10.00		REMA 1. Inspe		t excavated from 0.00m-1.50m.	

PRC	1 1	を昇地 「YSAN ^{秦昇集團成} Adva	JF(貧 An	DUN	NDA of Tysa	TIC n Group	DN L		T E D orks for		СС	NTF	RA	CT N	E RE D. ND/	′202´	1/0	4	DRILLHOLE No.EDH05SHEET2of4
	HOD	RO ⁻ / No.							со	E	826	ATE: 890. 510.	.48						JOB No. J2202SF06 DATE from 16/08/2022 to 18/08/2022
Drilling Progress	Casing depth/size				Solid core Recovery % U		Fracture Index	/ Test oth		IEN	TAT	Samples		ortic ⁶⁻ Reduced ⁶⁻ Level (mPD)		Legend		D	GROUND LEVEL +4.55 mP.D. Description
		0.10m at 18:00		A Tot	Soli	R.Q.D.		F.I. Der	32 bls			10. 7 3 10. 10.	45 50 - 45	- <u>10.45</u> -15.45			= 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E) M	ktremely weak, light grey, completely decomposed ETA-TUFF. (Very stiff, slightly sandy clayey SILT) ktremely weak, grey spotted white, completely composed META-TUFF. (Very stiff, slightly sandy ayey SILT)
	mall Distu arge Distu PT Liner \$ 76 Undist 100 Undis lazier San iston Sam /ater Sam	Irbed Sa Sample urbed Sa sturbed S nple nple	imple ample	le _	Pe Im Bo Pr Sta V	ermea press prehol- essur andpi situ V	bility T ion Pa e Tele emete pe/Pie	est acker T viewer r Test zomet hear T	⁻ Test er Tip			OGGE ARRY ATE 19/08/2 HECKI ED YII ATE 20/08/2	2022 ED I P	<u>ј</u> 2 ВҮ			RE	MARK	S

• ,		DRILLHOLE No. EDH05
泰昇地基工程有限公司 TYSAN FOUNDATION LIMITE (#另集團成員 Amember of Tysan Group)	DRILLHOLE RECORD CONTRACT No. ND/2021/04	SHEET 3 of 4
	for San Tin / Lok Ma Chau Development Node	
METHOD ROTARY	CO-ORDINATES	JOB No. J2202SF06
	E 826 890.48	JUB NO. J22023F00
MACHINE / No. DR-16		DATE from 16/08/2022 to 18/08/2022
		GROUND LEVEL +4.55 mP.D.
	Tests Samples Samples Samples 5-1 Reduced 5-1 Reduced 5-1 Legend Crade	Description
44004/2022 0.55m at 08:00 115 08:00 0 115 115 115 116 116 117 116 118 116 119 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 111 116 1111	1015 1 1015 1 1015 1 1015 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <	emely weak, grey spotted white, completely mposed META-TUFF. (Very stiff, slightly sandy ay SILT) emely weak, grey spotted white, completely mposed META-TUFF. (Very stiff, slightly sandy ay SILT)
□ Piston Sample ✓ In-situ Vane Shear Test ▲ Water Sample X Inclinometer Test	20/08/2022	

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PROJ	ECT	Adva	ance	Gro	und I	nves	tigati	ion V	Vorks fo	r Sar	n Tin	/ Lok N	/la C	hau C	Develop	ment N	ode		
METH	IOD	RO	ΓAR	Y					С	D-OF	RDIN	IATES	 3						JOB No. J2202SF06
MACH	INF /	No	DR-	16								890.							DATE from 16/08/2022 to 18/08/2022
FLUS					DR) 510.		Ventia					
												ION		Vertic					GROUND LEVEL +4.55 mP.D.
Drilling Progress	Casing depth/size	level (m) Shift start/ end	Water Recovery %	Total core Recovery	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		25 Keduced	60 Depth 00 (m)	Legend	Grade		Description
	30.50 HW	0.50 at 78 196 bis $15^{50.00}$ - $1\frac{1}{1}$														V	de	tremely weak, grey spotted white, completely ecomposed META-TUFF. (Very stiff, slightly sandy ayey SILT)	
-																F		nd of drillhole at 30.50m.	
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	all Distur ge Distu					andar ermea			on Test			.oggei Barry					REM	ARKS	S
] SP ⁻	F Liner S Undistu	ample		-	[Im	press	ion Pa	acker	Test er Test			DATE 19/08/2	022						
U10	0 Undis	turbed S		le	Pro	essur	emete	er Tes				CHECKE		(
Pist	zier Sam on Sam ter Sam	ple		`	/ In-		ane S	Shear				DATE 20/08/2							

CONTRACT NO. ND/2021/04

PROJECT : ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT NODE

HOLE NO.: EDH 05 BOX NO.: OF END DEPTH: 0.00 m TO 30.50 m DATE OF PHOTOGRAPH: 19-08-2022

•											וח		1/					`	DRILLHOLE No. EDH06
·H	Т –	表昇地 YSAN	FC	UN	IDA	TIC	DN I	LIMI	TED						E RE 0. ND/			J	SHEET 1 of 4
PRO					-			ion W	orks for						Developr				1
МЕТН	IOD	ROTARY CO-ORDINATES / No. CCL-1 E 826 519.33 N 840 084.16 / MEDIUM DRY ORIENTATION Vertical Water Value (mbalance) Value (mbalance) <td< td=""><td></td><td>JOB No. J2202SF06</td></td<>																JOB No. J2202SF06	
MAC	HINE /	No.	CCL	1					_	N	840	084.	16						DATE from 09/12/2022 to 12/12/2022
FLUS	HING		-				1		OF		ΓΑΤ	ION			al	1			GROUND LEVEL +5.27 mP.D.
Drilling Progress	Casing depth/size	level (m) Shift start/ end	Water <u>Recovery %</u>	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		24 Reduced 22 Level (mPD)	o Depth 8(m)	Legend	Grade		Description
09/12/2022	PW	PW															llowish red (5YR 5/6), silty fine SAND with much gular gravel of concrete and quartz. (FILL)		
	2 • c 1.45 1.50 • p 1.95 +3.27 2.00														Stii	ff, yellowish red (5YR 5/6) mottled grey, sandy SILT h some fine to medium gravel of concrete. (FILL)			
09/12/2022 10/12/2022 	PW HW	rbed Sar	nple		Sta	andar	d Per	etration	31 bis			6.0 3 4 6.4 6.5	5.5	<u>-4.73</u>	6.00			(AI	nse, grey (5YR, 6/1), silty fine to medium SAND. LUVIUM)
. ↓ Lar	ge Distu	rbed Sa			Pe	rmea	bility -	Fest			B								S pit excavated from 0.00m-2.00m.
	T Liner S 6 Undist		ample]		•		acker T viewer				ATE 13/12/2	022	2					
U10			Sample	e	Pre									βY					
		Indisturbed Sample Image: Borehole Televiewer Test 13/12/2022 Jndisturbed Sample Image: Pressuremeter Test CHECKED BY Sample Image: Standpipe/Piezometer Tip TED YIP Sample Image: Image: Image: Standpipe/Piezometer Test DATE																	
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METH	HOD HINE /	RO No.							CO-0	E 82	26 5	ΓES 19.3 84.1						JOB No. J2202SF06 DATE from 09/12/2022 to 12/12	2/2022
FLUS	SHING	MED	IUM		DR	Y			ORIE				Vertio	cal				GROUND LEVEL +5.27	mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/ end	Water Recoverv %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests		Samples	10.00	ት Reduced 더 Level (mPD)	0 Depth 8 (m)	Legend	Grade		Description	
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	THO	U	RO	IAR	Y)-OR			ES 19.3	3					JOB No. J2202SF06
MA	CHIN	NE /	No.	CCI	1									34.1						DATE from 09/12/2022 to 12/12/2022
FL	JSHI		MEDI			DR				OF	RIEN	TAT	101	N	Vertio	al				GROUND LEVEL +5.27 mP.D.
Drilling	Casing	depth/size	Water level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		t- Reduced Level (mPD)	00 Depth 00 (m)	Legend	Grada	Grade	Description
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Drilling Progress	Casing depth/size	Water level (m) Shift	er overy %	al core sovery %	Solid core Recovery %	D.	cture ex	F.I. / Test Depth	ts			Samples	k Reduced Level (mPD)))	Legend	de		Description	
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METH MACH	HOD HINE /	RO ⁻ / No.							CO	E	825	ATES 583.8 224.6						JOB No. J2202SF06 DATE from 05/12/2022 to 06/12/2022
FLUS	HING	MED	IUM		DR	Y			OR	IEN	TAT	ION	Verti	cal				GROUND LEVEL +6.69 mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/ end	% ∧	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples	승 Reduced 응 Level (mPD)	o Depth 8 (m)	Legend	Grade		Description
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	6.00 PW			108					33 bis			- 3.00 2 3 3.45 3.50 6.00	+0.60	<u>3.00</u>		*****	SO	ff, very pale brown (10YR 7/4), sandy SILT with me angular gravel of quart and concrete. (FILL)
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Drilling Progress	Casing depth/size	Water level (m) Shift start/	Vater tecovery %	otal core tecovery %	Solid core Recovery %	R.Q.D.	racture ndex	F.I. / Test Depth	Tests	Samples Samples ଆନ୍ୟାର୍ଥ୍ୟ Reduced ଅଧିକେହାନ ଅଭିନ୍ୟାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭାନ ଅତ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭିନାନ ଅଭାନ ଅଭାନ ଅତ ଅତ ଅନ ଅଭିନାନ ଅଭାନ ଅତ ଅତ ଅତ ଅତ ଅତ ଅତ ଅତ ଅତ ଅତ ଅତ ଅତ ଅତ ଅତ								Grade	Description							
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06/12/202									-		Ņ	15 <u>30</u> 30	.45 .50	-23.81	<u>30.50</u>	<u>! </u>	-		En	d of drillhole at 30.50	m.					
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- • si	mall Distu	rbed Sa	 mple		St	 andar	d Per	netrati	on Test		L	OGGE	D B	Y	F		R	EMA	RKS	6						
ļ La	arge Distu PT Liner \$	irbed Sa			Pe	ermea	bility -				Ē	BARRY						5								
Ŭ U	76 Undist		, ' ;	м Вс	brehol	e Tele	eviewe	er Test	DATE 07/12/2022																	
	100 Undis azier San		Samp	_				er Tes ezome	st eter Tip		CHECKED BY TED YIP															
Pi	iston Sam ater Sam	ple		`				Shear Test	Test			DATE 08/12/2	202	2												

CONTRACT NO. ND/2021/04

PROJECT : ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT NODE



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PRO	JECT	Adva	ance (Ground	d Inve	stiga	tion V	Vorks fo	or Sar	n Tin / Lok	Ma	a Chau E)evelopr	ment N	ode								
МЕТН	HOD	RO	[ARY	/				cc	D-OF	RDINATE	s					JOB	JOB No. J2202SF06						
								_		E 825 108		3											
MACI	HINE /	No.	CCL	-1					Ν	839 149	9.10	6				DATE	DATE from 30/12/2022 to 02/12/2022						
FLUS	HING	MEDI Water	UM		RY			OF		ITATION	1	Vertic	al	1		GRO	UND LE	VEL		+9.77	′mP.D.		
Drilling Progress	Casing depth/size	level (m) Shift start/ end	Water Recovery % Totol corro	Recovery % Solid core	Recovery % R.Q.D.	Fracture Index	F.I. / Test Depth	Tests		Samples		ਂ Reduced ਪੋLevel (mPD)	o Depth ^{Q(} m)	Legend	Grade		Description						
	3.00 PW HW							45 bis 13 bis 21 bis		A B B C T2-101 ↓ T2-101 ↓ T2-101 ↓ C C A A B B C C A A B B C C A A B B C C A A B B C C A A B B C C A A A B B C C A A A A A A A A A A A A A	0.45 0.50 1.00 1.45 1.50 1.75 1.80 2.70 3.00 3.45 3.50 3.90 4.70 6.00 6.45 6.50	+8.27 +7.97 +7.07 +5.87 +5.07 +5.07 +0.77 +0.27 -0.23	- <u>1.50</u> - <u>1.80</u>			Pale yellow SILT with s ((FILL)) Dark grey a COBBLE o Soft, pale y Dark grey a COBBLE o Extremely (Stiff, sand) Moderately decompos some grav Extremely completely	v (2.5Y 7/4 some angu and pink s of concrete vellow (2.5 and pink s of concrete veak, red v decompc y clayey S	4) and ular co spottec e and s 57 8/3) spottec e, stror Idish yu posed co SILT)	h browr 7007R 8/6	. (FILL) rey (2.5Y and gravel and grey granite. (CLAY. (F and grey ite and t 7.5YR 8/4 sh crysta 7.5YR 8/4 sh crysta	FILL) ILL) T, angular uff. (FILL) S), al TUFF. OBBLE with d white,		
↓ Lar	nall Distu ge Distu	rbed Sa	•	ŧ	Perme	ability	Test	on Test				3Y	. 10.00		REMA	RKS ction pit excav	ated from 0.	.00m-1.5	50m.				
브	T Liner S 6 Undisti	•	ample	-	•		Packer leviewe	Test er Test		DATE 07/12	2/202	22											
U10	00 Undis zier Sam		Sample	I			ter Tes iezome	st eter Tip		CHECI TED Y		BY											
Pis	ton Sam	ple		\sim	In-situ	Vane	Shear			DATE 08/12	2/202	22											
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PRO	DJECT							on W	/orks fo	r San														
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MAG	CHINE	/ No.	CCI	L-1					_			9 149							DATE from 30/12/2022 to 02/12/2022					
FLU	SHING		DR'				OF	ORIENTATION Vertical										VEL		+9.77	mP.D.			
g ess	ng /size	Total core Recovery %	core verv %		nre	Test				oles		မ္ Reduced ^{လ L} evel (mPD)	£	p			Description							
Drilling Progress	Casing depth/size	Total Reco	Solid Reco	R.Q.D.	Fracture Index	F.I. / Depth	Tests			Samples		0.2 Leve	00 Depth 00 (m)	Legend	Grade									
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	SPT Liner Sample											DATE 07/12/	202	2										
ι ι	U76 Undisturbed Sample U100 Undisturbed Sample ↓ Borehole Televiewer Te Pressuremeter Test											CHECK	(ED I											
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泰昇地基工程有限公司												יח						\	DRILLHOLE No. EDH08							
-			YSAN	I FC	JUN	NDA		DN I	LIM	ITED	D					E RE)	SHEET		3	of	4	
PR	OJE	ECT				-			ion V	Vorks fo	r San					Develop										
	TH	OD	RO	IAR	Y						D-OR			ES)8.3	3					+	JOB No. J2202SF06					
MA	CH	INE /	No.	CCI	L-1									19.1					DATE from 30/12/2022 to 02/12/2022							
FL													ORIENTATION Vertical											+9.77	mP.D.	
Drilling		Casing depth/size	Water level (m) Shift start/ end	Water Recovery %	Total core Recoverv %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests		Samples		는 Reduced 없 Level (mPD)	00 Depth 00 (m)	Legend		Grade			De	Description				
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	■ オ		V FC	DUN	IDA	良公 TIC n Group	DN	LIM	ITED	L					5 RE 0. ND				SHEET	4	of	4
PRO.	JECT							ion W	/orks fo	or Sar					Develop							
METH		RO	тлр	v							אוחכ	IATE							JOB No.	100	02SF06	
		KO		. 1								5 108		3					JOB NO.	JZZ	0231 00	
MACI	HINE /	No.	CCI	1								9 149							DATE from 30/12	2/2022	to 02/	12/2022
FLUS	HING				DR				OF	RIEN	ITAT	ION		Vertio	al				GROUND LEVEL		+9.77	mP.D.
g ess	ıg /size	Water level (m)	erv %	core very %	Solid core Recovery %		are	rest I				oles		မ္ဂ် Reduced ಜ Level (mPD)	-E	p			De	escripti	on	
Drilling Progress	Casing depth/size	Shift start/ end	Water Recov	Total Reco	Solid Reco	R.Q.D.	Fracti Index	F.I. / Test Depth	Tests			Samples		20.23	00 Depth 00 (m)	Legend	Grade					
- - - - 	30.50 HW			100					199 bls			13	0.00	-20.73	30.50		s Sheet 1 of 4.					
											•	14 31 31	0.45 0.50	-20.13			nd of drillhole at 30.50m	•				
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	ton Sam iter Sam			>			/ane \$ neter ⁻	Shear Test	Test			DATE 08/12	/202	2								

CONTRACTOR H TYSAN FOUNDATION LIMITED

CONTRACT NO. ND/2021/04 PROJECT : ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT NODE

HOLE NO.: EDH08 BOX NO.: DEPTH: 000 m TO 30.50 m DATE OF PHOTOGRAPH: 03-12-2022 0.5m



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PRO	JECT				-			ion V	Vorks fo	r San				a Chau E					
MET	HOD	RO	IAR	Y						D-OF		VA H 4 56		2					JOB No. J2202SF06
MAC	HINE /	No.	XY2	2B								8 77							DATE from 31/12/2022 to 04/01/2023
FLUS	HING				DR				OF	RIEN	TAT	ΓΙΟΝ	1	Vertic	al				GROUND LEVEL +21.49 mP.D.
g ess	lg /size	Water level (m)	ery %	core very %	Solid core Recovery %		are	rest I				les		tt Reduced B Level (mPD)	÷	p			Description
Drilling Progress	Casing depth/size	Shift start/ end	Water Recov	Total Reco	Solid Reco	R.Q.D.	Fractu	F.I. / Test Depth	Tests			Samples		Preve 149	o Depth 8 (m)	Legend	Grade		
-31/12/2022	122 PW														sul	ht red (2.5R 7/8), sandy SILT with much bangular to subrounded fine to medium gravel of ncrete. (FILL)			
															Lig	pht red (2.5R 6/8), slightly sandy clayey SILT with casional angular fine to medium gravel of concrete.			
																LL)			
											•	с	1.45 1.50		-				
E_															-				
E F					2								3.00	+18.49	3.00			Ex	tremely weak, red (2.5YR 5/8), completely
				89/					25 bls		Ņ	1	3.45 3.50		-			de	composed slightly metamorphosed coarse ash /stal TUFF. (Very stiff, sandy clayey SILT)
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ļ La	rge Distu	rbed Sa			-		bility	Test acker	Tost			BARF DATE		U					n pit excavated from 0.00m-1.50m.
	T Liner S 6 Undisti		ample		-	•						05/0 ⁻		:3					
U1	100 Undisturbed Sample Pressuremeter Test CHECKED BY																		
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	ater Sam	ple		>	< Inc	clinon	neter [.]	Test			-	U6/01	1/202	.3					

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PRO	JECT	泰昇集團成 Adva						on W	/orks for													
MET	HOD	RO	TAR	Y					cc)-OR	DIN	ATES						JOB No.		J22(02SF06	
мас	HINE /	/ No	XV2	PR						Е	824	565.5	53					DATE from	31/12/2	022	to 04	/01/2023
	// ///// // //	NO.	Λ12						_	N	838	771.6	69						51/12/2	022		01/2020
FLU	SHING				DR				OF		TAT	ION	Verti	cal		-		GROUND LE	VEL		+21.49	mP.D.
Drilling Progress	Casing depth/size	level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples	+ + B Level (mPD)	00 Depth 0(m)	Legend	Grade			Desc			
	15.00 PW HW			100	Sta				249 bis 282 bis	B		5 10.02 5 10.22 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30	-+1.49 ВY			\sim		tremely weak, pal composed slightly stal TUFF. (Very s	metamo	prpho	sed coars	se ash
	mall Distu arge Distu				•		d Pen bility 1		on Test			OGGED				REM	ARKS	6				
L	PT Liner S		amole	1	[Im			acker [.] viewe				ATE)5/01/20	23									
U	00 Undisturbed Sample T Pressuremeter Test CHECKED BY																					
	Mazier Sample ^A Standpipe/Piezometer Tip <u>TED YIP Piston Sample ✓ In-situ Vane Shear Test DATE </u>																					
	ater Sam						neter 1					06/01/20	23									

泰昇地基工程有限公司 TYSAN FOUNDATION LIMITE (維牙集團成員 A member of Tysan Group) PROJECT Advance Ground Investigation Works	DRILLHOLE RECORD CONTRACT No. ND/2021/04 for San Tin / Lok Ma Chau Development Node	DRILLHOLE No. EDH09 SHEET 3 of 4
METHOD ROTARY MACHINE / No. XY2B	CO-ORDINATES E 824 565.53	JOB No. J2202SF06 DATE from 31/12/2022 to 04/01/2023
FLUSHING MEDIUM DRY	N 838 771.69 ORIENTATION Vertical	GROUND LEVEL +21.49 mP.D.
Drulling Progress Casing depth/size purg (m) anap Water Total core Recovery % Recovery % Recovery % Recovery % Recovery % Recovery % Fracture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infacture Infa	Tests Samples Samples belevel (mPD) 8 Depth 8 (m) Legend Grade	Description
	bis N 1 25.00 10 20.33 10 20.33 10 20.33 10 20.33 10 20.33 10 20.33 10 20.33 10 20.33 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	skeet 2 of 4.
 Small Disturbed Sample Large Disturbed Sample SPT Liner Sample SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample In-situ Vane Shear Test 	BARRY YIU DATE 05/01/2023 CHECKED BY	

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•		泰昇地 「YSAN ^{泰昇集團成}	I FO	JUC	NDA	限公 TIC	DN	LIM	ITED	D						ט	SHEET	4	of	4
PRC	JECT	Adva	ance	Gro	und l	Inves	tigat	ion W	/orks fo	r San	n Tin / Lok Ma	a Chau E	Developn	nent N	ode					
MET	HOD	RO	TAF	RΥ					СС	D-OF	DINATES						JOB No.	J22	02SF06	
MAC	HINE	/ No.	XY2	2B					_		824 565.5						DATE from 31/12	2/2022	to 04/	01/2023
	SHING				DR	Y			OF		838 771.6	9 Vertic	al				GROUND LEVEL			mP.D.
									0.										- 21.10	
Drilling Progress	Casing depth/size	(m) Shift start/	/ater ecoverv	Total core Recoverv %	olid cor	R.Q.D.	racture idex	F.I. / Test Depth	Tests		Samples	beduced ^단 Level (mPD)	00 Cepth 00 (m)	Legend	Grade		De	escripti	on	
04/01/20	23 HW	end	< m	<u>н</u> е 0	S R		<u>ш ></u>		200 bls		0 12 30.00 30.06 30.11	-8.51 -8.62	<u>30.00</u> - 30.11	- 0	Sheet 3 of 4. d of drillhole at 30.11m					
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	mall Disti arge Disti				<u>+</u>	andar ermea			on Test		LOGGED E BARRY Y				REM	ARKS	3			
İ s	PT Liner	Sample		-	[Im	press	ion P	acker			DATE									
υ	100 Undi	Undisturbed Sample Televiewer Test 05/01/2023 D Undisturbed Sample Pressuremeter Test CHECKED BY																		
р	lazier Sai iston Sar /ater San	nple		`	✓ In-		/ane \$	Shear			DATE 06/01/202	23								

CONTRACTOR H TYSAN FOUNDATION LIMITED

CONTRACT NO. ND/2021/04 PROJECT : ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT NODE



										–								DRILLHOLE No. AEDH01
Ŧ	- 1	長昇地 YSAN	FC	UN	DA	TIC	NI	LIMI	ITED	D					5 RE 0. ND/			SHEET 1 of 4
PRO					-			ion W	/orks foi	r San					Developr			
МЕТН	HOD	ROI	[AR	Y					СС)-OF		NATE	ES					JOB No. J2202SF06
									-			6 155		C				
MACI	HINE /	No.	CCL	8					_	N	84 ⁻	1 12 ⁻	1.6	5				DATE from 21/06/2023 to 30/06/2023
FLUS	HING	MEDI Water	-		DRY	, 			OF	RIEN	TAT	TION	1	Vertio	al			GROUND LEVEL +8.27 mP.D.
Drilling Progress	Casing depth/size	level (m) Shift start/ end	Water Recovery %	I otal core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		et Reduced SLevel (mPD)	o Depth ©(m)	Legend	Grade	Description
-21/06/2023	SW	Dry											0.45 0.50 0.95 1.00	10.21				Reddish brown (5YR 6/8) spotted black and white, sandy clayey SILT with some subangular fine to medium gravel sized rock fragments. (FILL)
- 121/06/2023 -28/06/2023 - - - - - - -		at 18:00 Dry at 08:00		18					19 bls		Ś	1	1.45 1.50 1.95 2.00	+6.77 +6.27	- <u>1.50</u> - <u>2.00</u>			Stiff, yellowish red (5YR 5/8), sandy clayey SILT with some subrounded fine to medium gravel sized quartz. (ALLUVIUM) Drilling without sampling.
	3.00 SW PW			18					105 bis		Ņ	3	3.00 3.45 3.50	+5.27 +4.77	<u>3.00</u> 3.50	-q - 		Stiff, yellowish red (5YR 5/8) spotted grey, sandy clayey SILT with some subangular and subrounded fine to medium gravel sized quartz. (ALLUVIUM) Drilling without sampling.
				81/					29 bis			5	6.00 - 6.45 6.50	+2.27 +1.77	- 6.00 - 6.00 - 6.50 - 6.50	+	v	Extremely weak, red (10R 5/8), completely decomposed META-SILTSTONE. (Stiff, clayey SILT) Drilling without sampling.
		rbed Sar	•						on Test			LOGG			F 10.00		REMA	
SP'	ge Distu T Liner \$	irbed Sai Sample	mple	Ī	Imp		oility 1 ion Pa	Fest acker ⁻	Test		-						i. inspe	ection pit excavated from 0.00m-1.50m.
		urbed Sa sturbed S		∎ T	-			eviewe er Test	er Test t			07/07						
Ma	zier San	nple	-t- 1	ĉ	Sta	ndpip	oe/Pie	zome	ter Tip		-	CESA						
-	ton Sarr ater Sam			×	In-s Incl			Shear ⁻ Fest	rest			DATE 08/07	/202	23				

											וחי				-					DRILLHOLE No. AEDH01
•	Т Т	表昇地 YSAN	I FC	DUN	NDA	TIC	DN	LIM	ITED	D										SHEET 2 of 4
PRO								ion W	Vorks fo	r Sar										
MET		RO		v						D-OF	אורזכ		= 9							JOB No. J2202SF06
		ĸŬ		. T							E 826)						
MAC	HINE /	No.	CCI	8							841									DATE from 21/06/2023 to 30/06/2023
FLUS	HING				DR				OF	RIEN	ΙΤΑΤ		N	Vert						GROUND LEVEL +8.27 mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		Level (mPD)		0.000 0.000 0.000	Legend	Grade		Description
		31 bis 31 bis 10.45 -2.23 10.50 -1 - C														E: de	xtremely weak, white (N8) spotted grey, completely ecomposed META-SILTSTONE. (Stiff, slightly sandy			
Ē		31 bis $\mathbf{N}^{7} = \begin{bmatrix} - - - - - - - - - $													ayey SILT) illing without sampling.					
	15.00 PW HW							31 bis 7 8 10.45 -2.23 10.50 -1 - V C - - - - - - - - - - - - -												xtremely weak, weak red (10R 5/4) dappled ellowish brown, completely decomposed
Ē											L	10	15.45 15.50	-7.23	Ē	5.50	111			ETA-SILTSTONE. (Stiff, SILT)
										0.00										
	nall Distu				• -				on Test				GED E			0.00		REN	/ ARK	S
L.	rge Distu 'T Liner S		mple	-	-		bility ⁻ ion P	Fest acker	Test		-	BARF DATE	<u>RY YI</u>	U						
N U7	6 Undist	urbed Sa			ŀ Bo	orehol	e Tele	eviewe	er Test		-	07/0	7/202							
	00 Undis Izier Sarr		samp	-	-			er Tes ezome	t eter Tip				KED	BY ONG						
Pis	ton Sam ater Sam						/ane \$ neter ⁻	Shear Fest	Test			DATE 08/07	7/202	23						

PRO	1	泰昇集團成	V F(貧 An	DUN	JDA of Tysa	TIC n Group) N	LIMI7 ion Wo		C	ОNT	RA	CT N	E RE o. ND/ Developr	2021	/04	D	DRILLHOLE No. AEDH01 SHEET 3 of 4
MAC	HOD HINE / SHING		CCI	8	DR`	Y				E 82 N 84	6 155 1 121	5.00 1.6		al				JOB No. J2202SF06 DATE from 21/06/2023 to 30/06/2023 GROUND LEVEL +8.27 mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/ end 2.40m		Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests		Samples	0.00	Level (mPD)	8 Depth 8 (m)	Legend	Grade	Evtre	Description emely weak, red (10R 5/8) spotted white,
		at 08:00							239 bis	Ņ	12 20	0.00 0.15 0.20	-12.23	<u>20.50</u>		. V	com SAN	pletely decomposed META-SILTSTONE. (Silty
· · · · · · ·	22.54 HW				88	61	6.3 >20	22.54 22.60 23.40 23.61 23.69		T2-10)1	2.54 - 3.76	-14.27 -15.34 -15.42	22.54 23.61 23.69	• • • • • • • • • • • • • •		yello deco close smoo dippi 23.6	erately strong, grey striped white, dappled wish brown and reddish brown, moderately mposed META-SILTSTONE. Joints are very ely to closely locally medium spaced, rough and oth planar, extremely narrow, iron oxide stained, ing at 0°-10°, 10°-20°, 30°-40° and 50°-60°. 1- 23.69m: Moderately weak, highly decomposed. (COBBLE)
				12 12	90 70	29 26	4.8 >20	25.16		T2-10	— 2! 01	5.02			 • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • •<	1		
29/06/202		2.20m at 18:00 2.30m		100	77	32	>20	26.36 26.89 26.96		T2-10		7.48	<u>-18.10</u> <u>-18.44</u> <u>-18.62</u> <u>-18.69</u>	_ _ <u>26.71</u> _ 26.89			26.7 [°] local	7- 26.89m: Strong, slightly decomposed. 1- m: With some irregular quartz vein (1-2mm ly 20mm thick). 9- 26.96m: Moderately weak, highly decomposed.
		2.30m at 08:00		19	84	28	>20			T2-10		8.54			 • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • •<			(COBBLE)
				100	87	22	17.2			T2-10		9.94	-20.85 -21.37 -21.73	 			29.12	2- 29.64m: Strong, slightly decomposed.
	mall Distu arge Distu PT Liner \$ 76 Undist 100 Undis azier San ston Sam ater Sam	rbed Sa Sample urbed Sa sturbed S nple ple	imple ample	le _	Pe Im Bo Pro Sta	ermea press prehol essur andpi situ \	bility ion P e Tele emete pe/Pie /ane \$	acker Te eviewer er Test ezomete Shear Te	est Test r Tip		LOGGE BARR DATE 07/07/ CHECK CESAF DATE 08/07/	Y YI /202 KED R W	U 23 BY ONG			REM	ARKS	

										- -			10	-		-0	~		_	DRILLHOLE No. AEDH01
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PROJ								ion V	Vorks fo	r Sar										
METH		RO	ΓAR	Y					C)-OF	אוסצ	IATES	3							JOB No. J2202SF06
												6 155.								
MACH	HINE /	No.	CCI	8								1 121.								DATE from 21/06/2023 to 30/06/2023
FLUS	HING				DR				OF	RIEN	ITA	FION		Vertio	al					GROUND LEVEL +8.27 mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/	ater ecovery %	otal core ecovery %	olid core ecovery %	R.Q.D.	acture dex	F.I. / Test Depth	Tests			Samples		E Reduced Level (mPD)	<u>ଝ</u> Depth ର(m)	ledend	5005	Grade		Description
- -	ΰ₩	$\begin{array}{c c c c c c c c c c c c c c c c c c c $													As	Sheet 3 of 4.				
		at 18:00		100	21	21	>20	30.42			12-10	1 	42 -	22.15	<u> </u>	•	•	En	nd of drillhole at 30.42m.	
Lan Lan SP SP U76 U10	all Distur ge Distu T Liner S 3 Undistu	bed Sai ample irbed Sa	mple ample	le _	Pe I Im Bo	ermea press orehol	bility ion P e Tele	Test acker eviewe	er Test				YIU 2023 ED B	Y			F	REMA	ARKS	S
	0 Undisturbed Sample Image: Pressuremeter Test CHECKED BY cier Sample Image: Standpipe/Piezometer Tip CESAR WONG																			
-	ton Sam ter Sam			`				Shear Test	Test			DATE 08/07/2	023							

PRO	T	₹昇地 YSAN ^{₩昇集團成} Adva	JFC 員Am)UN	IDA of Tysar	TIC Group) N		I T E D /orks for	(201	NTR.	ACT N	E RE Io. ND, Developr	/2021	/04	ך כ	DRILLHOLE No. AEDH03 SHEET 1 of 4
MET	HOD	RO ⁻							CO-		26 3	331.9	91					OB No. J2202SF06
FLUS	HING	MED	IUM		DR۱	(ORI	IENT		695.8 ON	Verti	cal			0	GROUND LEVEL +7.61 mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/ end	% /u	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests		Samples		+ Reduced ¹² Level (mPD)	o Depth 8 (m)	Legend	Grade		Description
21/06/2023	SW	Dry at 18:00 Dry at 08:00		0					9 bis	MM. WEEGIDA FT	A B C	0.45 0.50 1.00 1.45 1.50 1.95 2.00	5 +6.11 5 +5.61	- <u>1.50</u> - <u>2.00</u>			some fragm Soft, I Drillin	sh brown (5YR 5/4), sandy clayey SILT with subangular fine to medium gravel sized rock ents. (FILL) black (N2.5), clayey SILT. (ALLUVIUM) g without sampling.
	PW			109					12 bis		2 3	3.00 3.45 3.50 6.00	+4.11	- <u>3.50</u> - <u>3.50</u> 			(ALLU Drillin	grey (N5) dappled reddish brown, silty CLAY. JVIUM) g without sampling.
				56					90 bis		4 5	6.45 6.50	-2.39	- 6.50 		v	spotte _crysta	nely weak, red (10R 5/8) dappled brown and d white, completely decomposed coarse ash I TUFF. (Stiff, clayey SILT) g without sampling.
 ↓ Lan ↓ SP ↓ U7 ↓ U1 ↓ Mat ↓ Pis 	I rge Distu T Liner \$ 6 Undistr 00 Undis zier Sam ton Sam	rbed Sa Sample urbed Sa turbed S nple ple	mple ample	le	Pe Im Bo Pre Sta	rmea press rehol essur andpi situ \	bility ⁻ ion P e Tele emete pe/Pie ′ane \$	Test acker eviewe er Tes ezome Shear	r Test t ter Tip		BA DA 07 CH <u>CE</u> DA	7/07/20 IECKEI SAR V	BY /IU D23 D BY WONG			I INSP		excavated from 0.00m-1.50m.

										Г							00		<u> </u>	DRILLHOLE No. AEDH03
-	Τ -	表昇地 YSAN	V FC	JUN	NDA	TIC	DN	LIM	ITED	L									ر	SHEET 2 of 4
PRO								ion W	/orks fo	r Sar										
МЕТН		RO	тлр	·v							RDIN									JOB No. J2202SF06
	100	ĸŪ		. 1							E 826			1						JOB NO. J22023F00
MACI	HINE /	No.	CCI	L-8							840									DATE from 21/06/2023 to 26/06/2023
FLUS	HING				DR				OF	RIEN		ΓΙΟΙ	N	Vert						GROUND LEVEL +7.61 mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		ہٰ Reduced ⁸⁶ Level (mPD)	0.01 Depth	2(m)	Legend	Grade		Description
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $														spo	tremely weak, red (10R 5/8) dappled brown and otted white, completely decomposed coarse ash				
	15.00 HW 2.10m at 2.10m at 15.00 at -7.39 at 15.00 at -7.39 at 15.00 at Extremely weak, yellowish red (5YR 5/8) dappled red, completely decomposed coarse ash crystal TUFF.																			
Lar SP SP U70 U10 Ma	Small Disturbed Sample J Standard Penetration Test LOGGE Large Disturbed Sample J Standard Penetration Test LOGGE SPT Liner Sample T Impression Packer Test DATE U76 Undisturbed Sample T Impression Packer Test 07/07/ U100 Undisturbed Sample T Persuremeter Test CHECK Mazier Sample T In-situ Vane Shear Test DATE Piston Sample V In-situ Vane Shear Test DATE Water Sample X Inclinometer Test 08/07/											BARI DATE 07/0 CHEC CES/ DATE	RY YI 5 7/202 CKED AR W	IU 23 BY /ONG		10	F	REMA	ARKS	5

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Ŧ	Τ -	表昇地 YSAN	I FC	JUN	NDA	TIC	DN	LIM	ITED	L				IOL ACT M					ر	SHEET 3 of 4
PRO					-			ion V	Vorks fo	r Sar										
MET		RO								D-OF	אורזכ	1.4.1	E6							JOB No. J2202SF06
		RU		. r									⊑3 31.9	1						
MAC	HINE /	No.	CCI	L-8									95.8							DATE from 21/06/2023 to 26/06/2023
FLUS	HING				DR				OF	RIEN	ITAT	ГΙΟ	N	Vert	cal					GROUND LEVEL +7.61 mP.D.
g ess	Casing depth/size	Water level (m) Shift	/ery %	core verv %	core very %		ure	Test				oles		는 Reduced 없 Level (mPD)	 _=		р			Description
Drilling Progress	112 bis 10														(m)	Legend	Grade			
				18/					112 bls						È		詽	v	bro	tremely weak, yellowish brown (5YR 5/8) dappled own, completely decomposed coarse ash crystal JFF. (Stiff, sandy SILT)
Ē																	illing without sampling.			
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<u>-</u>				100					94 bls			12	25.00	-17.39	<u>– 25</u> –	.00	<u>+ +</u>		Ext	tremely weak, yellowish red (5YR 5/8) spotted
Ē				Ž	1				94 DIS		Ņ	13	25.45 25.50	-17.89	<u>= 25</u>	.50	- -		LTΠ	ite, completely decomposed coarse ash crystal IFF. (Stiff, clayey SILT)
															È				Dri	illing without sampling.
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F		2 00~													Ê					
- - - - 24/06/2023		2.00m at 18:00												-22.39	E	.00				
• Sn	nall Distu	rbed Sa		·	÷				on Test				GED E	ЗY			I	REMA	ARKS	5
L.	rge Distu 'T Liner S		mple		L-		bility ⁻	Test acker	Test			BAR DATE	RY Y	IU						
N U7	6 Undist	urbed Sa		- - -	Вс	orehol	e Tele	eviewe	er Test			07/0	7/202							
U1	00 Undis Izier San		Samp	-				er Tes ezome	t eter Tip				CKED AR W	BY /ONG						
	ton Sam			`	✓ In-	-situ ∖	/ane \$	Shear				DATE	Ξ			_				
▲ Wa	ater Sam	ple		>	< Inc	clinon	neter ⁻	Test				U8/U	7/202	20		_				

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	Т Т	表昇地 YSAN	I FC	DUN	NDA	TIC	DN	LIM	ITED	L				E RE 0. ND/			ט	SHEET 4	of	4
PRO	JECT	Adva	ance	Gro	und I	nves	stigat	ion W	orks fo	r Sar	n Tin / L	.ok Ma	a Chau E)evelopr	nent N	ode				
MET	HOD	RO	ΓAR	Y					СС	D-OF	RDINA	TES						JOB No.	12202SF0	6
MAC	HINE /	' No	CCI	-8					_		8263							DATE from 21/06/20		6/06/2023
											1 840 6									
FLUS	SHING				DR`				OF	RIEN	ΙΤΑΤΙ			al		Т		GROUND LEVEL	+7.6	1 mP.D.
Drilling Progress	Casing depth/size	level (m) Shift start/ end	Water Recovery %	Total core Recovery ⁶	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests		Samples	.	ନ୍ଧ Reduced ଝ Level (mPD)	ର Depth ର(m)	Legend	Grade		Descr	iption	
-26/06/202 -26/06/202	3 30.25 HW	2.50m at 08:00		100					200 bls		14 15	30.00 30.20 30.25	-22.39 -22.64	- <u>30.00</u> - <u>30.25</u>		IV	†∖tu	eak, grey, highly decompos IFF. (Fine to coarse GRAVI	ed coarse a EL)	ish crystal
																En	d of drillhole at 30.25m.			
-																				
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● Sr	nall Distu	rhed Sci			C+-		rd Por		on Test		10			-		REM		2		
ļ La	rge Distu	rbed Sa			Pe	ermea	bility -	Test			BA	GGED E RRY Y				rtEM/	AKKS	2		
	PT Liner S 6 Undisti		ample		-			acker eviewe	Test r Test		DA 07	TE /07/202	23							
U1	00 Undis azier Sam		Samp	le	Pro			er Tes ezome	t ter Tip			ECKED SAR W								
Pi:	ston Sam	ple		`	✓ In-	situ ∖		Shear			DA 08	TE /07/202	23	_						

											וח					-00	וחי		DRILLHOLE No. AEDH10
•H	Т Т	表昇地 YSAN	I FC	DUN	IDA	TIC	DN I	LIMIT	ED						E RE 0. ND/			ן ט	SHEET 1 of 4
PROJ	ECT	Adva	ance	Gro	und I	nves	tigati	ion Woi	rks for	r San	Tin /	/ Lok	Ma	Chau [Developr	ment N	ode		
METH	IOD	RO	TAR	Y					СС)-OR	DIN	ATE	s						JOB No. J2202SF06
												6 4 4 6		3				-	
MACH	HINE /	No.	CCI	8						Ν	839	924	.78	3					DATE from 29/05/2023 to 30/05/2023
FLUS	HING	MED Water	IUM		DR	Y	1		OR		ΓΑΤ	ION		Vertio	al	1			GROUND LEVEL +6.46 mP.D.
Drilling Progress	Casing depth/size	level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		a, Reduced b Level (mPD)	o Depth 0(m)	Legend	Grade		Description
-29/05/2023 	HW											• 0	145	+5.96	0.50				ck (N2.5), silty SAND with some subangular fine to rse gravel sized asphalt fragments. (FILL)
	32 bis 32 bis															suba	owish red (5YR 5/8), sandy SILT with some angular fine to medium gravel sized asphalt ments. (FILL)		
		32 bis $32 bis$ $32 bis$ $32 bis$ $32 bis$ $32 bis$ $32 bis$ $32 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ $33 bis$ 33															yello fine qua	n, yellowish red (5YR 5/8) dappled white and ow, sandy SILT with some angular to subangular to coarse gravel sized moderately strong tuff and rtz. (FILL)	
		32 bis 32 bis 332 bis 333 bis 333 bis 333 bis 333 bis 345 346 3.00 															Drill	ing without sampling.	
	$33 \text{ bis} \qquad \boxed{33 \text{ bis}} \begin{array}{c} 2.00 \\ +3.46 \\ -3.00 \\ +3.46 \\ -3.00 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ $															with coar	n, red (10R 5/8) spotted white, sandy clayey SILT some subangular and subrounded medium to rse gravel sized quartz. (ALLUVIUM) ing without sampling.		
				<u>s</u> v					65 bis			5	5.00 - 5.45 5.50 -	+0.46	6.00	00000		mec (ALI	k grey (N4), sandy subangular and subrounded lium to coarse GRAVEL sized quartz. LUVIUM) ing without sampling.
		rbed Sa	•	 				etration	Test			.OGGE BARRY			10.00			ARKS	bit excavated from 0.00m-1.50m.
SP ⁻	- F Liner S	•			[Im	press		acker Te			-	DATE 19/06/2							
U10		urbed Sa turbed S		le _	Pre			eviewer T er Test	est		- C	HECK	ED	BY					
	zier Sarr on Sam				-			ezometer Shear Te			_	DESAR	R W	ONG					
	ter Sam								-			20/06/2	202	3					

																-00		<u> </u>	DRILLHOLE No. AEDH10
·H	Т Т	を昇地 YSAN	I FC	JUN	NDA	TIC)N I	LIM	ITED	D					E RE 0. ND			D	SHEET 2 of 4
PROJ	JECT	Adva	ance	Gro	und l	nves	tigati	ion W	/orks fo	r San	Tin	/ Loł	k Ma	Chau I	Develop	ment N	lode		
METH	HOD	RO	TAR	Y					СС	D-OR	DIN	IATI	ES						JOB No. J2202SF06
MACH	HINE /	No.	CCI	L-8								6 4 4							DATE from 29/05/2023 to 30/05/2023
FLUS	HING	MED	IUM		DR	Y			OF	N RIEN		9 92		3 Verti	cal				GROUND LEVEL +6.46 mP.D.
								t				-							
Drilling Progress	Casing depth/size	(m) Shift start/ end	Vater Recovery	otal cor Recoven	Solid core Recovery %	R.Q.D.	Fracture Index	:.I. / Tesi Depth	Tests			Samples		Reduced Level (mPD)	01 Depth 8(m)	Legend	Grade		Description
		enu		er er	071				21 bls			7	10.00	-3.54	-		l v	gre	tremely weak, reddish yellow (5YR 6/8) striped dark y, completely decomposed coarse ash crystal
																		FF. (Stiff, clayey SILT)	
-																			
E E																			
															Ē				
29/05/2023		2.60m at 18:00												0.54					
-30/05/2023		2.70m at		100					46 bls			9	15.00	-8.54	<u> 15.00 </u>		l v	vel	tremely weak, pale brown (10YR 6/3) dappled lowish brown and striped dark brown, completely
		08:00									Ϋ́,	10	15.45 15.50	-9.04	<u> </u>	+++		\SIL	
															-				lling without sampling.
-															Ē				
-																			
-																			
															-				
-															E F				
- ● Sm	all Distu	rbed Sa	 mple	<u> </u>	St	andar	d Pen	etratio	on Test		L	LOGG	GED E		F 20.00		REM	 ARKS	3
1.4	ge Distu T Liner S		mple		-		bility T ion Pa	Fest acker	Test		-	BARF DATE		U					
N U76	6 Undisti 00 Undis	urbed Sa		; ; ;	Bc	orehol	e Tele		er Test		-	19/06 CHEC							
🛛 Mai	zier Sam	nple	- an p	ć	5 St	andpi	pe/Pie	zome	ter Tip		(AR W	ONG					
-	ton Sam Iter Sam						ane s neter 1	Shear Fest	rest			20/06		3					

PRO	T (*	异集團成	J F C	DUN	NDA of Tysa	TIC n Group	DN .		ITED Vorks fo		СС	NT	RA	ACT N	E RE lo. ND Develop	/2021	/04	D	DRILLHOLE No. AEDH10 SHEET 3 of 4
METH	HOD	RO	ΓAR	Y					СС	D-OF	RDIN	ATE	ES						JOB No. J2202SF06
MAC	HINE /	No.	CCI	L-8							E 826 N 839								DATE from 29/05/2023 to 30/05/2023
FLUS	HING	MED	UM		DR	Y			OF		TAT			Verti	cal				GROUND LEVEL +6.46 mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		는 Reduced 또 Level (mPD)	00 Depth 00 (m)	Legend	Grade		Description
100 bis 12 20.46 20.50 -14.04 20.50 -1.1 (Stiff, clayey SILT) Drilling without san 100 bis 13 25.00 -18.54 25.00 -1.1 V Extremely weak, light of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second												Iling without sampling. Tremely weak, light brownish grey (10YR 6/2), mpletely decomposed coarse ash crystal TUFF.							
 ↓ Lar ↓ SP ↓ U7 ↓ U1 ↓ Ma ↓ Pis 	all Distur ge Distu T Liner S 6 Undist 20 Undis zier Sam ton Sam	F Pe Im Bc Pr St Y In-	ermea press prehol essur andpi -situ \	bility ion P e Tele emete pe/Pie	Test acker eviewe er Tes ezome Shear	er Test st eter Tip			0GG 8ARR 9ATE 19/06 2ESA 9ATE 20/06	6/202 KED .R W	IU 23 BY /ONG			REM	ARKS	3			

•										Г	וחי						_	DRILLHOLE No. AEDH10	
• •	Т Т	表昇地 YSAN	I FC	JUN	IDA	TIC	DN	LIM	ITED	L			IOLE ACT N				ر	SHEET 4 of 4	
PROJ	IECT	Adva	ance	Gro	und I	Inves	tigat	ion V	Vorks fo	or Sar	۲in ،	/ Lok M	la Chau I	Developi	ment N	ode			
METH	IOD	RO	ΓAR	Y					С	D-OF	RDIN	ATES						JOB No. J2202SF06	
									-			6 446.6					ŀ		
MACH	HINE /	NO.	CCI	L-8					_	Ν	1 839	924.7	78					DATE from 29/05/2023 to 30/05/202	3
FLUS	HING				DR`				O	RIEN	ITAT	ION	Vertio	cal	1			GROUND LEVEL +6.46 mP.D).
Drilling Progress	Casing depth/size	level (m) Shift start/	ater covery %	tal core covery %	Solid core Recovery %	R.Q.D.	acture lex	F.I. / Test Depth	Tests			Samples	능 Reduced 얈 Level (mPD)	00 (m)	Legend	Grade		Description	
		2.30m	88 ₿	\vee	പ്പ	Ř	Ë	ĒĞ				30.00	-23.54	<u>30.00</u>				remely weak, brown (10YR 5/3), completely	
- 30/05/2023 -	30.50 HW	at 18:00		2					107 bls	;	Ņ		<u>-24.04</u>	- 30.50			SIL	composed coarse ash crystal TÜFF. (Stiff, clayey T) d of drillhole at 30.50m.	′
• Sm	30.50 at 109 107 bis 15														REMA	ARKS			
↓ Lan	ge Distu T Liner S	rbed Sa		1 - 1 - 1	Pe	ermea	bility -		on Test Test		Ē	OGGED							
N U76	6 Undisti 00 Undis	urbed Sa) - - -	- Bo	orehol	e Tele		er Test		_	19/06/20 CHECKE							
🛛 Mai	zier Sam	nple		ć	Sta	andpi	pe/Pie		eter Tip		2								
-	ton Sam ter Sam					-situ v clinom			rest			20/06/20)23						

PRO	T ()	₹昇地 YSAN ^{#昇集團成} Adva	J FC 員 Am) U N ember o	DA of Tysar	TIC Group) N]			C		ITR/	ACT N	E RE lo. ND, Developi	/2021	/04	DRILLHOLE No. AEDH11 SHEET 1 of 4
METH	HOD HINE /								CO-(E 8	26 3	TES 352.9 320.9					JOB No. J2202SF06 DATE from 29/05/2023 to 30/05/2023
FLUS	SHING	MED	IUM		DR۱	(ORI	ENT	ATIC	ON	Verti	cal			GROUND LEVEL +8.09 mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/ end	% Δι	I otal core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests		Samples	-	c Reduced 윤 Level (mPD)	e Depth 8 (m)	Legend	Grade	Description
-29/05/2023	31 bis 100 31 bis 31															Firm, dark yellowish brown (10YR 4/4), sandy clayey SILT. (FILL) Stiff, yellowish red (5YR 5/8) dappled red and light grey, sandy clayey SILT with some subangular fine gravel sized quartz. (ALLUVIUM) Drilling without sampling.	
- - - - - - - - - - - - - - - - - - -	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$														- - - - - -		Stiff, light grey (N7) dappled dark red, clayey SILT. (ALLUVIUM) Drilling without sampling.
	109 30 bis 3 4 3.45 +4.59 = 3.50															V	Extremely weak, yellowish red (5YR 5/8) dappled red completely decomposed coarse ash crystal TUFF. (Stiff, slightly sandy clayey SILT) Drilling without sampling.
	nall Distu		•		_				on Test			GGED					ARKS
 SP U7/ U1/ Ma Pis 	rge Distu PT Liner S 6 Undistu 00 Undis azier Sam ston Sam ater Sam	Sample urbed Sa turbed S nple ple	ample	e]	Bo Bo Pre Sta	press rehol essur andpi situ \	e Tele emete pe/Pie	acker eviewe er Test ezome Shear	r Test t ter Tip		DA ¹ 19, CHE CE	/06/20 ECKED SAR V	23 D BY VONG			I. Insp	section pit excavated from 0.00m-1.50m.

										-						-0	~		,	DRILLHOLE No. AEDH11
Ŧ	T	¥ F F F F F F F F F F F F F F F F F F F	I FC	DUN	NDA	TIC	DN I	IM	ITED	D					E RE				כ	SHEET 2 of 4
PROJ								on W	/orks fo	r San					Develop					
METH		RO	TAR	v					C	D-OR	חוח		-5							JOB No. J2202SF06
												6 35		3					ŀ	
MACH	HINE /	No.	CCI	2						N	839	82	0.92	2						DATE from 29/05/2023 to 30/05/2023
FLUS	HING				DR				OF		TAT		1	Verti	cal					GROUND LEVEL +8.09 mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/ end	Vater Recovery %	Fotal core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	=.I. / Test Depth	Tests			Samples		Level (mPD)	01 Depth 00 (m)	Leaend	5	Grade		Description
		enu		100	0712		<u> </u>		39 bls				10.00		È		- 	v	com	remely weak, light grey (N7) striped brown, npletely decomposed coarse ash crystal TUFF.
	39 bis 7 8 10.50 -2.41 10.50 -2.41 10.50 -2.41 10.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1																	v	Stif	remely weak, reddish brown (5YR 5/4), completely omposed coarse ash crystal TUFF. (Stiff, sandy omposed coarse ash crystal TUFF. (Stiff, sandy T with some fine gravel) ing without sampling.
● Sm	all Distu	bed Sa	mple		Sta	andar	d Pen	etratio	on Test		L	LOGG	ED E		F 20.00		F	REMA	ARKS	
l å	ge Distu T Liner S		mple		-		bility T ion Pa	Test acker	Test		-	BARF DATE								
N U76	6 Undistu 00 Undis	urbed Sa			Bo			viewe er Tes	er Test t		-	19/06 CHEC								
🛛 Mai	zier Sam	ple		ć	Sta	andpi	pe/Pie	zome	ter Tip		<u>(</u>		RW	ONG						
-	ton Sam iter Sam						ane s neter 1	Shear Test	rest			20/06		3						

PRO	T (i	奏 昇 地 YSAN ^{泰昇集團成} Adva	J F C 員 An	DUN nember	IDA of Tysa	TIC n Group) N		TED forks for		CO	NTR	IOLI ACT N a Chau	lo. NE)/20)21/	/04	D	DRILLHOLE No. AEDH11 SHEET 3 of 4
METH	HOD HINE /	RO ⁻ ' No.							co	E	826	ATES 352.9 820.9	8						JOB No. J2202SF06 DATE from 29/05/2023 to 30/05/2023
FLUS	HING	MED	IUM		DR`	Y			OR	IEN	ΓΑΤΙ	ON	Verti	cal					GROUND LEVEL +8.09 mP.D.
Drilling Progress	Casing depth/size			Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests		Samplee		남 Reduced 당 Level (mPD)	© Depth 0(m)	-	Legend	Grade		Description
		2.20m at 18:00 at 08:00		Real Real Real Real Real Real Real Real	0	0	NI	24.50	109 bis	-		24.5C	-12.41	- 20.50 - 20.50 			V 	Str dec	remely weak, light grey (N7) dappled reddish wn, completely decomposed coarse ash crystal FF. (Stiff, sandy SILT) lling without sampling.
		2.30m		6 12		0	NI	25.05 25.40 25.90 25.90	n Test		2-101	25.00 25.00 25.90	-17.31 -17.51 -17.81	- 25.05 - 25.40 - 25.60 - 25.90 - 25.90 				dec GR Str. dec 25. cor Ext gre TU	eak, white (N8) dappled yellowish brown, highly composed QUARTZ VEIN. (Fine to medium AVEL) ong, light grey dappled dark brown, slightly composed QUARTZ VEIN. Rock is non-intact. 40- 25.60m: No recovery assumed to be mpletely decomposed TUFF. remely weak, yellowish brown (10YR 5/4) spotted y, completely decomposed coarse ash crystal FF. (Stiff, sandy SILT)
 ↓ Lar ↓ SP ↓ U7 ↓ U1 ↓ Ma ↓ Pis 	all Distu ge Distu T Liner S 6 Undist 00 Undis zier Sam ton Sam ater Sam	rbed Sa Sample urbed Sa sturbed S nple ple	mple ample	le _	Pe Im Bo Pri Sta	ermea press prehol- essur andpi situ V	bility ⁻ ion P e Tele emete pe/Pie	Fest acker ⁻ eviewe er Test ezomel Shear ⁻	r Test ter Tip		BA DA _19 CH CE DA	ARRY A ARRY A ATE 9/06/20 HECKEI ESAR V ATE D/06/20	YIU 23 D BY VONG			F	REM/	ARKS	3

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PROJECT Advance Ground Investigation Works in Sam Tin / Lok Ma Daw Development Node JOB No. J2202SF06 MACHINE / No. CCL-2 E 820 352.08 N 839 820.02 JOB No. J2202SF06 FLUSHING MEDIUM ORY ORIENTATION Version GROUND LEVEL +8.09 mP.D.	٠H	Т Т	YSAN	FC	DUN	IDA	TIC	DN	LIM	ITED	L								D	SHEET 4 of 4
MACHINE / No. CCL-2 E 826 352.98 N 839 820.92 DATE from 29/05/2023 to 30/05/2023 FLUSHING MEDIUM DRY ORIENTATION Vertical GROUND LEVEL +8.09 mP.D. under the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th	PROJ								ion W	/orks fo	or Sar									1
MACHINE / No. CCL-2 E 826 352.98 N 839 820.92 DATE from 29/05/2023 to 30/05/2023 FLUSHING MEDIUM DRY ORIENTATION Vertical GROUND LEVEL +8.09 mP.D. under the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th	METH		RO		v							ואוספ								IOB No. 122025E06
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Impression Packer Test DATE U76 Undisturbed Sample Impression Packer Test 19/06/2023 U100 Undisturbed Sample Impression Packer Test CHECKED BY Mazier Sample Standpipe/Piezometer Tip CESAR WONG Piston Sample Impressive Test DATE 20/06/2023 DATE 20/06/2023		30.30 at 100 84 blc 14 30.00														REM	ARK			
U76 Undisturbed Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image: Sample Image	L.	-		mple						Test				<u>′ YI</u>	U					
Mazier Sample ^A Standpipe/Piezometer Tip <u>CESAR WONG </u> DATE 20/06/2023	N U76	6 Undistu	urbed Sa		· ·	Во	rehol	e Tele	eviewe	r Test		_1	9/06/							
	U10			Samp	-	_														
		on Sam	ple		`	/ In-	situ V	/ane \$	Shear					/202	23	_				

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PRO								on W	/orks fo	r Sar					Developr				
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METH	100	RO	IAR	Υ.						D-OF F			ES 16.24	4				+	JOB No. J2202SF06
MAC	HINE /	No.	CCI	8									51.23						DATE from 01/06/2023 to 05/06/2023
FLUS	HING				DR				OF		ITA	TIO	N	Verti	cal				GROUND LEVEL +5.99 mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		_{ମି} Reduced ଝ Level (mPD)	o Depth 8(m)	Legend	Grade		Description
01/06/2023	3 SW Dry at 18:00 Dry at 08:00 SW PW A 0.45 A 0.45 B 0.95 C 1.45 1.50 C 1.45 1 25 bls SV A 0.45 C 1.45 1 25 bls SV A 0.45 C 1.45 C 1.50 C 1.45 C 1.50 C 1.45 C 1.50 C 1.45 C 1.50 C 1.45 C 1.45 C 1.50 C 1.45 C 1.50 C 1.45 C 1.45 C 1.45 C 1.50 C 1.45 C 1.50 C 1.45 C 1.50 C 1.45 C 1.45 C 1.50 C 1.45 C 1.50 C 1.45 C 1.50 C 1.45 C 1.50 C 1.45 C 1.50 C 1.45 C 1.50 C 1.45 C 1.45 C 1.50 C 1.																wn (10YR 5/3), sandy clayey SILT with some angular fine to coarse gravel sized rock fragments. L)		
		at 18:00 Dry at 08:00 25 bls i c 1.45 1.50 i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i															Drill	ing without sampling.	
	3.00 SW PW 87 37 bis 3 37 bis 3															GR/	wn (10YR 5/3), sandy subangular fine to coarse AVEL sized quartz. (ALLUVIUM) ing without sampling.		
				18					48 bis			5	6.00 6.45 6.50	-0.01 -0.51	- 6.00 - 6.50 	0 0 0 0 0 0 0 0 0		qua	it grey (N7), sandy subangular fine GRAVEL sized rtz. (ALLUVIUM) ing without sampling.
02/06/2023 ● Sm ↓ Lar SP' N U70 ■ U10 Ø Ma. ■ Pis	all Distu ge Distu T Liner S 6 Undist 20 Undis zier Sam ton Sam ter Sam	rbed Sa Sample urbed Sa sturbed S nple ple	mple ample	le -	Pe Im Bo Pr Sta	ermea press prehol essur andpi situ \	bility 1 ion Pa e Tele emete pe/Pie ′ane S	Fest acker eviewe er Test ezome Shear	r Test t ter Tip			BAR DATE 19/0 CHE0 CES DATE	06/202 CKED AR W	U 23 BY VONG	- - - - - - - - - - - - - - - - - - -			ARKS	bit excavated from 0.00m-1.50m.

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PRO	JECT							ion W	/orks fo	r San										
METH		RO		v						D-OF		14.71	= 6							JOB No. J2202SF06
		RU		ľ							826			1						JUB NO. J22025F00
MAC	HINE /	No.	CCI	8							839									DATE from 01/06/2023 to 05/06/2023
FLUS	HING				DR				OF	RIEN	TAT		1	Vert						GROUND LEVEL +5.99 mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		ት Reduced 요Level (mPD)	6 Depth	8(m)	Legend	Grade		Description
-03/06/2023		2.30m at		44					82 bls			7	10.00		Ē			v	coi	tremely weak, red (5R 5/8) dappled brown, mpletely decomposed coarse ash crystal TUFF.
	023 2.30m at 08:00 44 44 08:00 82 bis 87 7 8 10.45 10.50 -4.51 10.50 1 -1 V 023 15.00 at 15.00 2.20m at 15.00 at 15.00 -9.01 15.00 -9.01 15.00 023 PW 16.00 at 15.00 37 bis 9 15.00 -9.01 15.00																illing without sampling.			
- - - - - - - - - - - - - - - - - - -	15.00 at 2023 PW 18:00 2023 HW 2.50m at 08:00 37 bis 9 -9.01 -15.00 -9.51 15.50																v	COI	tremely weak, red (5R 5/8) dappled brown, mpletely decomposed coarse ash crystal TUFF.	
		08:00									Ŵ	10	15.45 15.50	-9.51	<u> </u>	50				tiff, clayey SILT)
- ● Sm	nall Distu	rbed Sa	 mple		Sta	andar	d Pen	etratio	on Test			LOGG			20	00	F	REMA	ARKS	3
1.5	rge Distu 'T Liner S		mple		-		bility T ion Pa	Fest acker	Test		-	BARF		U		_				
N U7	6 Undist	urbed Sa			ŀ Bo	rehol	e Tele	eviewe	r Test		-	19/06				_				
	00 Undis Izier Sarr		samp	-	-			er Tes zome	t ter Tip			CHEC		BY ONG		_				
Pis	ton Sam ater Sam			`				Shear Fest	Test			DATE 20/06		3		_				

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PRO	JECT							ion W	/orks fo	r Sar										
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FLUS	HING	MED	UM		DR	Y			OF	RIEN	ITAT	ΓIΟI	N	Ver	lica	I				GROUND LEVEL +5.99 mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift	er overy %	al core covery %	Solid core Recovery %	R.Q.D.	cture ex	F.I. / Test Depth	sts			Samples				epth)	Legend	de		Description
Pro Pro	dep dep	start/ end		//	No No No	R.0	Fra	Der I.	Tests			Sar	20.00	ت ۵ 14.01-	_	00 Depth 00 (m)	 	Grade		tremely weak, red (5R 5/8) spotted white and
				100					44 bls		Ņ	11 12	20.45 20.50	-14.5	Ē	20.50	<u>+</u> <u>+</u> <u>-</u> <u>- -</u>	l v	str cry	riped brown, completely decomposed coarse ash ystal TUFF. (Stiff, clayey SILT)
																Dr	illing without sampling.			
				8					66 bls			13		-19 5 [,]	Ē	25 50		l v	ye ye	ktremely weak, reddish yellow (5YR 6/8) spotted Ilow, completely decomposed coarse ash crystal JFF. (Stiff, clayey SILT)
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- • Sn	nall Distu	rhed So		[Ct-	andar	d Por	etrativ	on Test				GED I	-24.0 ⁷	Ē	30.00				ç
‡ La	rge Distu	rbed Sa			Pe	rmea	bility 1	Fest			!	BAR	RY Y						IARK	0
드	T Liner S 6 Undisti		ample		-			acker eviewe	Test er Test			DATE 19/0	=)6/202	23						
U1	00 Undis	turbed S		le	Pr			er Tes					CKED AR W	BY /ONG						
	izier Sam ton Sam							zome Shear	ter Tip Test			DATE		5110						
	ater Sam			>	< Inc						-	20/0	6/202	23						

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PROJ	ECT	Adva	ance	Gro	und I	Inves	tigat	ion V	Vorks fo	or Sar	n Tin	/ Lo	k Ma	Chau	Deve	lopm	ient No	ode						
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MACH	HINE /	No.	CCI	L-8					_	Ν	1 839	9 85	51.23	3						DATE from	01/06/	/2023	to 05	/06/2023
FLUS	HING				DR		1		0	RIEN	ITAT	ΓΙΟΙ	N	Verti	cal					GROUND LE	VEL		+5.99	mP.D.
Drilling Progress	Casing depth/size	level (m) Shift start/ end	Vater Recovery %	Fotal core Recoverv %	Solid core Recovery %	R.Q.D.	⁻ racture ndex	F.I. / Test Depth	Tests			Samples		는 Reduced 당Level (mPD)	8 Depth	(m)	Legend	Grade			Des	scripti	on	
-	30.50	2.30m at		- 1890	0712				98 bls			15	30.00 30.25 30.30		È	ŀ		v	darl	remely weak, yel k brown, complet	tely deo	compo	(10YR 5/ sed coars	8) striped se ash
05/06/2023		W 18:00 -24.51 30.50 -1														<u>- -</u>			stal TUFF. (Stiff, d of drillhole at 30		SILT)			
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U10)0 Undis zier Sarr		Samp	-				er Tes ezome	st eter Tip				CKED AR W	BY ONG										
Pist	on Sam ter Sam	ple		`	✓ In-		/ane \$	Shear				DATE 20/0	: 6/202	23		_								

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FLUS	HING	MEDI			DR`				OF		ITA	TIO	N	Vertio	al	1			GROUND LEVEL +6.46 mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		승 Reduced 하 Level (mPD)	o Depth 8(m)	Legend	Grade		Description
_01/06/2023 	PW										NSPECTION PIT .	A	0.45 0.50 0.95 1.00						ark greyish brown (10YR 4/2), sandy SILT with some bangular fine gravel and rootlets. (FILL)
				100					17 bls		Ż	C 1 2	1.45 1.50 1.95 2.00	+4.96	- <u>1.50</u> - <u>2.00</u>			sa	iff, light grey (N7) dappled yellowish brown, slightly ndy clayey SILT. (ALLUVIUM) illing without sampling.
				100					16 bls		Ņ	3 4	3.00 3.45 3.50	+3.46 +2.96	- <u>3.00</u> - <u>3.50</u>	00 0 000000000000000000000000000000000		to qu	eddish yellow (5YR 6/8), sandy subangular medium coarse GRAVEL sized moderately strong to strong artz. (ALLUVIUM) illing without sampling.
	6.00 PW HW			100					49 bis			5	6.00 6.45 6.50	+0.46 -0.04	- 6.00 - 6.50 - 6.50 			bro TU	tremely weak, light grey (N7) dappled yellowish own, completely decomposed coarse ash crystal JFF. (Stiff, sandy clayey SILT) illing without sampling.
- 	ge Distu T Liner \$ 6 Undist	urbed Sa sturbed S nple ple	mple ample	e _	Pe Im Bo Pri Sta	ermea press rehol essur andpi situ V	bility 1 ion Pa e Tele emete pe/Pie ′ane S	Test acker eviewe er Tes ezome Shear	er Test t ter Tip			BAR DATE 19/0 CHE0 CES DATE	06/202 CKED AR W	BY 'ONG	- - - - - - - - - - - - - - - - - - -		REM/		S pit excavated from 0.00m-1.50m.

PF	ROJE	T (秦	昇集團成	JF(員An	DUN nember	JDA of Tysar	TIC Group) N]		I T E D Vorks fo		СС	2N	TR	ACT	N	E RE	/202	1/0	4	DRILLHOLE No. AEDH13 SHEET 2 of 4
ME	ЕТНС	DD	RO	ΓAR	Y					cc	D-OF	RDIN	JAT	ES							JOB No. J2202SF06
MA	ACHII	NE /	No.	CCI	2							E 826 N 839									DATE from 01/06/2023 to 05/06/2023
FL	USH	ING	MEDI	UM		DR	ŕ			OF						ertic	al				GROUND LEVEL +6.46 mP.D.
Drilling		Casing depth/size	Water level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		د. Reduced	¥ Level (mPD)	0 Depth 0 (m)	Legend	Crodo		Description
			3.20m at 08:00							46 bis			9 10	10.00 10.45 10.50 15.00 15.45 15.50	4.(04	10.00 10.50 10.50 10.50 10.50 15.50 15.50			/ Exi cry Dri	tremely weak, dark yellowish brown (10YR 4/4) otted white, completely decomposed coarse ash stal TUFF. (Stiff, clayey SILT) lling without sampling. tremely weak, dark yellowish brown (10YR 4/4) otted white, completely decomposed coarse ash rstal TUFF. (Stiff, clayey SILT) lling without sampling.
02/06/	Small		18:00 bed Sa							on Test				GED		54	20.00		RE	MARKS	3
↓ 	SPT L	Liner S				_ Im	press		acker				DATI	:RY Y E 06/20:							
		Undist	irbed Sa turbed S		le _	Pre	essur	emete	er Tes	er Test it eter Tip			CHE	CKED		i					
	Piston		ble	`		ane S	Shear				DATI										

PR		条 昇 地 「YSAN ^{泰昇集團成} Adva	JFC 貧 An	DUN	JDA of Tysar	TIC n Group) N]		I T E D Vorks for		СС	DNT	[R/	OLI ACT N a Chau	lo. N)/2	021/	/04	D	DRILLHOLE No. AEDH13 SHEET 3 of 4
ME	THOD	RO	TAR	Y					СС)-OF	RDIN	IATI	ES							JOB No. J2202SF06
МА	CHINE	/ No.	CCI	2							826 839								-	DATE from 01/06/2023 to 05/06/2023
FLU	JSHING	MED	IUM		DR	Y			OR	RIEN				Verti	cal					GROUND LEVEL +6.46 mP.D.
Drilling		Water level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		t: Reduced S Level (mPD)	8 Depth	()	Legend	Grade		Description
		3.10m at 08:00		1 x 2 1					112 bis 81 bis			11 12 13 14	20.00 20.45 20.50 25.00 25.46 25.50	<u>-14.04</u>					gre TU Dril	tremely weak, yellowish brown (10YR 5/4) spotted by, completely decomposed coarse ash crystal FF. (Stiff, slightly sandy clayey SILT) lling without sampling.
	Small Disti Large Disti	irbed Sa		 	-		d Per bility ⁻		on Test				GED E RY Y		<u>⊢ 30.0</u>	<u>) </u>	F	REMA	ARKS	3
<u>i</u> :	SPT Liner J76 Undis	Sample		_ Im	press	ion P	acker	Test er Test		-	DATE									
	U100 Undi Mazier Sai Piston Sar	nple	Samp	S Sta	andpi	pe/Pie	er Tes ezome Shear	eter Tip		<u>c</u>	DESA DATE		ONG							
	Water San				neter ⁻					20/06	6/202	23								

											ייסי	1.1				יחי		RILLHOLI	E No.		AEDH1	3
·H	Т Т	¥ SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN WF SAN SAN SAN SAN SAN SAN SAN SAN SAN SAN	I FC	DUN	IDA	TIC	DN I	LIM	ITED	L				E RE				IEET		4	of	4
PROJ								ion W	/orks fo	or Sar				Developr			I					
METH	IOD	RO	TAR	Y					С	D-OF	RDINA	TES					JOE	3 No.		J22	02SF06	
									_		826		5									
MACH	HINE /	No.	CCL	2						Ν	839	700.8	7					TE from	01/06	6/2023	to 05/	06/2023
FLUS	HING				DR				O	RIEN	ITATI	ON	Vertio	cal			GR	OUND LI	EVEL		+6.46	mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/	Water Recovery %	otal core Recovery %	Solid core Recovery %	R.Q.D.	⁻ racture ndex	F.I. / Test Depth	Tests		Samples		≿ Reduced 또 Level (mPD)	© Depth 8(m)	Legend	Grade			De	escripti	on	
05/06/2023	30.30 HW	end at 18:00			or		뜨느		110 bis		0. 15	30.00	-23.54 -23.84	<u>30.00</u> - 30.30	-9-	0	Extremel	y weak, br	rown (1	0YR 5/3	3) dappled	white,
• Small	all Distu	bed Sa	mple						on Test			30.25 30.30 GGGED RRY Y	BY			REMA	\quartz ve End of dr	ly decomp in. (Stiff, c illhole at 3	clayey S	SILT wit	ash crystal	TUFF with bble)
] SP ⁻	ge Distu F Liner S		mple	3			bility T sion Pa		Test		DA	TE										
N U76	6 Undist	iner Sample I Impression Packer Test DATE ndisturbed Sample Impression Packer Test 19/06/2023 Undisturbed Sample Pressuremeter Test CHECKED BY																				
Maz	zier Sarr	ple	φ.		Sta	andpi	pe/Pie		ter Tip		CE	SAR W										
	on Sam ter Sam						/ane t neter 1		าชรเ)/06/20:	23									

•																- ~ ~		_	DRILLHOLE No. AEDH14
·H	Т Т	表昇地 YSAN	I FC	DUN	IDA	TIC	DN :	LIM	ITED	D					E RE			ן כ	SHEET 1 of 4
PROJ	IECT	Adva	ance	Gro	und I	nves	tigat	ion W	/orks fo	r San	n Tin	/ Lo	k Ma	i Chau I	Developi	ment N	ode		
METH	IOD	RO	TAR	Y					cc	D-OF	RDIN	JAT	ES						JOB No. J2202SF06
MACH		No		Q					-	E	826	6 59	8.96	6					DATE from 09/06/2023 to 12/06/2023
									-				67.58						
FLUS					DR`				OF	RIEN	ITA	TIOI	N 	Verti	cal				GROUND LEVEL +9.01 mP.D.
Drilling Progress	Casing depth/size	level (m) Shift start/ end	Water Recovery %	Total core Recovery 9	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		ಕ beduced GLevel (mPD)	o Depth 8(m)	Legend	Grade		Description
-09/06/2023 	SW												0.45	+8.51	0.50			with	n, yellowish brown (10YR 5/8), sandy clayey SILT some subangular medium to coarse gravel sized rtz. (FILL)
											WSPECTION PIT	A B	0.45 0.50 0.95 1.00	10.01	- - - - - -			Firm	n, greyish brown (10YR 5/2), sandy clayey SILT some subangular fine to coarse gravel sized lerately strong tuff. (FILL)
				78					7 bls		ģ	C 1 2	1.45 1.50 1.95	+7.51	- <u>1.50</u> 				n, dark grey (N4) dappled yellowish brown, sandy ey SILT with decayed wood fragments and odour. L)
													2.00						ing without sampling.
	3.00 SW PW			0					18 bls				3.00	+6.01	- 3.00				n, yellowish brown (10YR 5/4), clayey SILT with e angular cobble sized strong granite. (FILL)
											Ŵ	3	3.45 3.50	+5.51	<u>3.50</u>				ing without sampling.
				0					103 bls				6.00	+3.01	<u> 6.00 </u>		•		/ dark grey (N3) dappled white, subangular coarse AVEL sized guartz and decayed wood fragments.
											Ņ	4	6.45 6.50	+2.51	<u>6.50</u>			_(ALI	UVIUM) ing without sampling.
		1.50m													Ē				
- - - - - - - - - - - - - - - - - - -	10.00 PW	at 18:00												-0.99	- - 10.00				
	and Disturbed Sample Standard Penetration Test LOGG rge Disturbed Sample Permeability Test BARF																	ARKS ection p	oit excavated from 0.00m-1.50m.
	T Liner Sample I Impression Packer Test DATE																		
U10	76 Undisturbed Sample Image: Borehole Televiewer Test 19/06/2023 100 Undisturbed Sample Image: Pressuremeter Test CHECKED BY Iazier Sample Standpipe/Piezometer Tip CESAR WONG																		
	zier Sarr ton Sam								DATE										
	ter Sam	Indisturbed Sample Image: Pressuremeter Test Sample Standpipe/Piezometer Tip Sample In-situ Vane Shear Test												23					

•															_				_	DRILLHOLE No. AEDH14
·H	Т Т	表昇地 YSAN	I FC	DUN	NDA	TIC	DN	LIM	ITED	L						RE . ND/			J	SHEET 2 of 4
PRO	ECT	Adva	ance	Gro	und I	nves	stigat	ion W	/orks fo	r Sar	n Tin	/ Lo	k Ma	h Chau	De	evelopn	nent N	ode		
МЕТН	IOD	RO	TAR	Y					СС	D-OF	RDIN	IAT	ES							JOB No. J2202SF06
											826			6						
MACI	HINE /	No.	CCI	8					_	Ν	839	9 46	67.5	8						DATE from 09/06/2023 to 12/06/2023
FLUS	HING				DR		1		OF		TAT	10	N	Ver		I				GROUND LEVEL +9.01 mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		능 Reduced ^᠖ Level (mPD)		0 Depth 8(m)	Legend	Grade		Description
10/06/2023	HW	HW 1.60m 48 bis $35 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 \text{ bis} = 1.49 \text{ bis} = 10.50 b$														bro	tremely weak, light grey (N7) dappled yellowish wn, completely decomposed coarse ash crystal			
	1.20m at 18:00 1.20m at 18:00 1.500 -5.99 15.00 -1 -1 V Extremely weak, red (5R 5/8) dappled yellowish brown, completely decomposed coarse ash crystal														IFF. (Stiff, sandy clayey SILT) Illing without sampling.					
		at 08:00		78/					63 bls		Ņ	7 8	15.45 15.50	-6.49	Ē	15.50	Īţ		brc TU	own, completely decomposed coarse ash crystal IFF. (Stiff, sandy clayey SILT) Illing without sampling.
													-10.00		- - -				inn g without samping.	
	all Distu				+		d Per		on Test				GED E RY Y	3Y	2	20.00		REM	ARKS	3
SP'	ge Distu F Liner S	Sample		1	[Im	press	sion P	acker			-	DATE	=							
	6 Undistu)0 Undis			-	<u>_</u>			eviewe er Test	er Test t				6/202 CKED							
🛛 Ma	zier Sam	nple		ć	Sta	andpi	pe/Pie	ezome	ter Tip		9		AR W	ONG						
-	on Sam ter Sam						/ane \$ neter ⁻	Shear Test	rest				6/202	23						

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·F	Т Т	¥ SAN ^{後 昇 集 圏 成}	FC	DUN	NDA	TIC	DN	LIM	ITED	D						RE . ND/:			D	SHEET 3 of 4
PRO								ion V	Vorks fo	r San										
METH		RO	ΓAR	Y					CC)-OF	אוסצ	IAT	FS							JOB No. J2202SF06
									_				98.9	6						
MACI	HINE /	No.	CCI	8						N	839	9 46	67.5	8						DATE from 09/06/2023 to 12/06/2023
FLUS	HING				DR				OF	RIEN	TAT	10	N	Vert		I				GROUND LEVEL +9.01 mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/	ater ecovery %	otal core ecovery %	Solid core Recovery %	R.Q.D.	acture dex	F.I. / Test Depth	Tests			Samples		b B B Level (mPD)		8 Depth 8 (m)	Legend	Grade		Description
25	ပိဗိ	end	Š₩	ĔĔ	йæ	Ľ.	шĘ	ட் பீ					20.00	-10.99	+	20.00	<u>د</u> + +	1	Ex	tremely weak, reddish brown (5YR 5/4) dappled
-		57 bis N ⁹ <u>[] 20.45</u> <u>-11.49</u> <u>20.50</u> <u>-1</u> <u>(</u>) vel														llowish brown, completely decomposed coarse ash /stal TUFF. (Stiff, sandy clayey SILT) /illing without sampling.				
				100					72 bis		•	11 12	25.00	-15.99		- - 25.00	1 - 1 - 1		Ex	tremely weak, red (5R 5/8) dappled yellow,
														-16.49	Ē	25.50	<u>[</u> <u></u>] <u> </u> <u> </u>		cor (St	mpletely decomposed coarse ash crystal TUFF. tiff, sandy clayey SILT)
																-				illing without sampling.
	all Distu				÷				on Test				GED I	3Y		30.00		I REM	I ARKS	6
1.4	ge Distu T Liner S		mple		-		bility ⁻	Test acker	Test		-	bar Date	RY Y	IU						
N U7	6 Undist	urbed Sa			Bc	orehol	e Tele	eviewe	er Test		-)6/202							
	00 Undis zier Sam		amp	-	-			er Tes ezome	t eter Tip				CKED AR W	BY ONG						
Pis	ton Sam ater Sam						/ane \$ neter ⁻	Shear Test	Test			DATE 20/0	E)6/202	23						

										6									DRILLHOLE No. AEDH14
Ŧ	T	↓	FC	JUN	NDA	TIC	DN I	LIM	ITED	Ľ									SHEET 4 of 4
PRO								ion V	Vorks fo	or Sar									I
METH	HOD	ROI	ΓAR	Y					С	D-OF	RDIN	IAT	ES						JOB No. J2202SF06
											826			3					
MAC	HINE /	No.	CCI	8						Ν	1 839	9 46	67.58	3					DATE from 09/06/2023 to 12/06/2023
FLUS	HING				DR		1		O	RIEN	ITAT	10	N	Verti	cal				GROUND LEVEL +9.01 mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift	er overy %	al core overv %	Solid core Recovery %	ġ	sture x	F.I. / Test Depth	ţ			Samples		ନ୍ଧ Reduced ଝ Level (mPD)	bth		bue	de	Description
Drilli Prog	Cas depi				Soli Rec	R.Q.D.	Frac	F.I. Dep	Tests				30.00	е Ц -20.99	00.00 Depth		Legend	Grade	Extremely weak, reddish brown (5YR 5/4) spotted
12/06/2023	30.50 HW														- - -	v	grey, completely decomposed coarse ash crystal TUFF. (Stiff, sandy clayey SILT)		
		18:00 -21.49 - 30.50 - 1															End of drillhole at 30.50m.		
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• Sm	all Distu	bed Sar	nple	I	÷	ı andar	d Per	netratio	on Test				GED E		1		F	REMA	ARKS
÷	ge Distu T Liner S		mple		-	ermea press		Test acker	Test			bar Date	RY YI	<u>၂</u>					
N U76	6 Undistu	urbed Sa		, - -	ŀ Bo	orehol	e Tele	eviewe	er Test			19/0	6/202						
	00 Undis zier Sarr		Samp		_														
		ndisturbed Sample Pressuremeter Test CHECKED BY Sample [≜] Standpipe/Piezometer Tip [↑] In-situ Vane Shear Test Sample × In-situ Vane Shear Test Sample × Inclinometer Test																	

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·H		長昇地 「YSAN ^{泰昇集圏成}	FC		DA	TIC)N I	LIMI	TED	D					E RE 0. ND/			SHEET 1 of 4
PROJ	IECT	Adva	ance	Grou	und l	nves	tigat	ion W	orks fo	r San	Tin /	Lok N	la Cha	u D	Developn	nent N	ode	
METH	HOD	RO	ΓAR	Y					СС)-OR	DIN	ATES	;					JOB No. J2202SF06
MACH				_8					_	Е	825	374.8	32					DATE from 13/06/2023 to 19/06/2023
												461.3	36					
FLUS	HING				DR\				OF	RIEN	TAT	ION	Ve		al			GROUND LEVEL +4.75 mP.D.
Drilling Progress	Casing depth/size	level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples	Leduced +4.7	و لحموا (اااللا	o Depth 8(m)	Legend	Grade	Description
13/06/2023	SW	Dry								ANDECATION DIT		а 0.4 0.5 в 0.9 1.0	5 0 5 0					Red (10R 4/8), sandy clayey SILT with some subangular fine gravel and rootlets. (FILL)
13/06/2023 16/06/2023	23 18:00																Reddish brown (5YR 5/4), sandy clayey SILT with some subangular fine gravel. (FILL)	
	at 89 08:00 - 18 bis 1 - 1.95 +2.75 - 2.00																	Drilling without sampling.
	3.00	3.00 SW +1.75 3.00																
	PW	-		89					30 bls			3			_			Red (5R 5/8) dappled white, sandy clayey SILT. (ALLUVIUM)
												4 3.4 3.5	5 +1.2	5	<u>3.50</u>			Drilling without sampling.
				<u></u>					66 bis			6.0 5 6 6.4 6.5	5 -1.7	5	6.00			Extremely weak, yellowish red (5YR 5/8), completely decomposed coarse ash crystal TUFF. (Stiff, sandy clayey SILT) Drilling without sampling.
		rbed Sai irbed Sai					d Per bility ⁻		on Test			OGGED		5	10.00			ARKS ection pit excavated from 0.00m-1.50m.
SP'	T Liner S	Sample		I	[Im	press	ion P	acker ⁻				ATE						
U10	00 Undis	sturbed S		e]	Pre	essur	emete	er Test	t		c	HECKE	D BY					
		Undisturbed Sample Image: Borehole Televiewer Test 19/06/2023 O Undisturbed Sample Image: Pressuremeter Test CHECKED BY Image: Pressuremeter Test CESAR WONG Image: Pressuremeter Test Image: Pressuremeter Test Image: Pressuremeter Test CESAR WONG Image: Pressuremeter Test DATE																
	ter Sam								-			20/06/20)23					

										Г	חר				- r		~~~		<u> </u>	DRILLHOLE No. AEDH23
F	Т Т	¥ ¥ SAN ^{※ 昇 楽 剛成}	I FC	DUN	NDA	TIC	DN	LIM	ITED	L				OL					J	SHEET 2 of 4
PRO	JECT							ion V	Vorks fo	or Sa										
MET	HOD	RO	FAR	Y							RDIN E 82			2						JOB No. J2202SF06
MAC	HINE /	No.	CCI	8							N 83									DATE from 13/06/2023 to 19/06/2023
FLUS	SHING				DR				OF	RIEI	NTA	ΓЮ	N	Vert						GROUND LEVEL +4.75 mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/	Vater Recovery %	otal core secovery %	Solid core Recovery %	R.Q.D.	racture ndex	F.I. / Test Depth	Tests			Samples		ہ، Reduced کا Level (mPD)	Depth	8 (m)	Legend	Grade		Description
	0.9	end	512		ОĽ	Ľ.			95 bis			7	10.00	-5.25	<u>10</u>	0.00	$\frac{1}{1}$	0 v	Ext	tremely weak, yellowish red (5YR 5/8), completely composed coarse ash crystal TUFF. (Stiff, sandy
																cla	yey SILT) Illing without sampling.			
	15.00 PW HW	2.00m at 18.01		1 St					96 bis			9 10	15.00 15.45 16.50			50			deo _ cla	tremely weak, reddish yellow (5YR 6/8), completely composed coarse ash crystal TUFF. (Stiff, sandy yey SILT) Illing without sampling.
	nall Distu	rbed Sai			•				on Test				GED E RY Y		1 20	.00		REMA	ARKS	3
j sf	rge Distu PT Liner S	Sample			_ Im	press		acker				DATE	E							
	6 Undisti 00 Undis				<u>_</u>			eviewe er Tes	er Test st				06/202 CKED							
🛛 Ма	zier Sam	ple	·P·	ć	St	andpi	pe/Pie	ezome	eter Tip				AR W	/ONG		_				
-	aton Sam ater Sam						/ane S neter ⁻	Shear Test	rest				_)6/202	23						

										–						- ~				DRILLHOL	.E No.		AEDH	123	
·H	T	异地 YSAN	FC	DUN	NDA	TIC)N I	IM	ITED											SHEET		3	of	4	4
PROJ								on W	/orks fo																
METH		RO	ΓAR	Y					0.0)-OR		ATI	-s						J	OB No.		.122	202SF0	6	
													4.82	2											
MACH	HINE /	No.	CCI	8						N	839	9 46	1.36	3					D.	ATE from	13/0	6/2023	to 1	9/06	6/2023
FLUS	HING				DR				OF		ΓΑΤ	101	1	Verti	cal				G	ROUNDL	EVEL		+4.7	5	mP.D.
Drilling Progress	Casing depth/size	Water level (m) Shift start/ end	Nater Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		는 Reduced 당 Level (mPD)	00 Depth		Legend	Grade			D	escript	ion		
17/06/2023		$\begin{array}{c c c c c c c c c c c c c c c c c c c $														v	decom	nely weak, y posed coar	ellowisl se ash	h red (5 crystal	YR 5/8), TUFF. (S	com Stiff, s	pletely sandy		
																	_clayey Drilling	SILT) without sa	mpling.	-					
									89 bis			13	25.00 -			$\frac{1}{1}$		v	decom	nely weak, y	se ash	crystal -	TUFF. (S	Stiff, s	sandy
											.	14	25.45 25.50	-20.75	<u> 25.50</u> _ _	<u> </u>	<u> </u>			SILT with s without sa		bangula	ar fine gr	avel)
		1.90m at																							
17/06/2023 ● Sm	all Distur	18:00 bed Sai	 mple	<u> </u>	ŧ				on Test				ED E	βY	30.00		F	REMA	ARKS						
SP'	ge Distu F Liner S		mple		-		bility 1 ion Pa	Test acker	Test		-	DATE													
	3 Undistu)0 Undis				<u>_</u>			viewe er Tes	er Test t		-		3/202 KED												
🛛 Mai	zier Sam	ple		ć	St	andpi	pe/Pie	zome	ter Tip		2		R W	ONG											
-	on Sam ter Sam						/ane S neter 1	Shear Test	rest				6/202	3											

										Г									DRILLHOL	.E No.		AEDH	123
	- т	表昇地 YSAN	I FC	NUC	NDA	TIC	DN	LIM	ITED	L					E RE 0. ND/				SHEET		4	of	4
PRO								ion V	Vorks fo	or Sai)evelopr			I					
METH		RO	ΓAR	Y					C)-OF		IATES	5						JOB No.		.122	202SF06	3
												5 374.						-					
MACI	HINE /	No.	CCI	8						Ν	1 839	9 461.	36						DATE from	13/0	6/2023	3 to 19	9/06/2023
FLUS	HING				DR		1		0	RIEN	TAT	ION		ertic	al	1	1		GROUND L	EVEL	-	+4.75	5 mP.D.
Drilling Progress	Casing depth/size	level (m) Shift start/ end	Vater 8ecovery %	otal core Secoverv %	Solid core Recovery %	R.Q.D.	Fracture ndex	F.I. / Test Depth	Tests			Samples	Reduced	Sc Level (mPD)	ଝ Depth େ(m)	Legend	Grade			D	escript	tion	
19/06/2023	30.50	.50 at 87 188 bis 15													30.00		v	light	emely weak, r grey, complet	tely dec	compos	(5YR 5/4) ed coarse	dappled ash crystal
19/06/2023	HW														<u>30.50</u>	<u> </u>	I	L_TUF	F. (Stiff, sand of drillhole at	y claye	y SILT)		
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	all Distu			-	+	andar ermea			on Test			.ogged Barry					REM	ARKS					
j sp	T Liner S	Sample						acker eviewe				DATE 19/06/2	023										
U1	00 Undis	turbed S		le	Pr	essur	emet	er Tes	st					3	_								
	176 Undisturbed Sample												023										

•																-00			DRILLHOLE	No.		AEDH	24	
·H	Т –	表昇地 YSAN	I FC	DUN	IDA	TIC	DN	LIM	ITED	D					5 RE 0. ND/			ן נ	SHEET	1		of	4	
PROJ	IECT	Adva	ance	Gro	und I	nves	tigat	ion W	/orks fo	r San	Tin	/ Lok	k Ma	Chau [Developr	nent N	ode							
METH	IOD	RO	TAR	Y					СС	D-OR	RDIN	NATE	ES						JOB No.		J220	02SF06	6	
MACH	HINE /	'No.	ссі	8					_			6 00							DATE from 0	04/07/2	2023	to 06	5/07/2	2023
FLUS	HING	MED	IUM		DR	Y			OF			9 47 TION		o Vertio	al				GROUND LE	/EL		+10.09	9 m	P.D.
	ze	Water level	%	y %	re y %			tt						d DD)										
Drilling Progress	Casing depth/size	(m) Shift start/ end	Water Recovery	Total col Recover	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		t B B Level (mPD)	o Depth 8(m)	Legend	Grade			Des	criptio	on		
	SW	Dry										A	0.45 0.50 0.95 1.00	+10.09	 			som grav	dish brown (5YR e subangular and el sized moderat rootlets. (FILL)	d subro	ounded	d fine to	mediu	um 🛛
- 104/07/2023 - 05/07/2023 - - - - - - - - - - - - -		at 18:00 Dry at 08:00	-	x					20 bis		ģ	C 1 2	1.45 1.50 1.95 2.00	+8.59 +8.09	2.00			yello _cryst	emely weak, red wish brown, com tal TUFF. (Stiff, s ing without sampl	pletely andy c	deco	mposed		
	3.00 SW PW			100					19 bis		Ņ	3 4	3.00 3.45 3.50	+7.09 +6.59	<u>3.00</u> 3.50			yello _cryst	emely weak, red wish brown, com tal TUFF. (Stiff, s ng without sampi	pletely andy c	deco	mposed		
				200					41 bis			5 6	6.00 t 6.45 6.50	+4.09 +3.59 +0.09	6.00 6.00 6.50			dapr coar \SILT Drilli	emely weak, red bled yellowish bro se ash crystal TU) ng without sampl	òwn, co JFF. (V	mplet	ely decc	mpos	ed
‡ Lan		rbed Sa rbed Sa Sample	•		Pe	rmea	bility		on Test Test			LOGG BARF DATE	ry yi				REMA		it excavated from 0.0	0m-1.50)m.			
N U76	6 Undist	urbed Sa turbed S	•		Во	ireholi	e Tele		r Test			07/07 CHEC	7/202											
Ma:	zier San ton Sam	nple		-	-			ezome Shear	ter Tip Test			CESA DATE												
	ter Sam			>	< Inc							08/07	7/202	3										

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• +			I FC	DUN	IDA		N	LIM	ITED	L					E RE 0. ND/			D	SHEET	2	of	4
PRO	JECT	Adva	ance	Gro	und I	nves	tigat	ion W	orks fo	r Sar	ר Tin	/ Lok	Ma	Chau [Developn	nent N	lode					
METH	HOD	RO	TAR	Y					co	D-OF	RDIN	IATE	S						JOB No.	J22	02SF06	
мас	HINE /	No		_8					-	E	826	6 005	6.63	3					DATE from 04/07	7/2023	to 06/	07/2023
												9 475								72023		
FLUS	HING		-		DR`				OF	RIEN	ITAT	ION		Vertio	al		<u> </u>		GROUND LEVEL		+10.09	mP.D.
Drilling Progress	Casing depth/size	level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		, Reduced ଜ Level (mPD)	0 Depth 0 (m)	Legend	Grade			escripti		
				100					225 bls		Ņ	7 8 10).00).45).50	-0.41	 10.50		v	da	remely weak, red (5R s opled yellowish brown, arse ash crystal TUFF.	comple	tely decon	nposed
	15.00 PW HW			100	31	19	NI 11.1 >20 NR	15.70 15.84 16.11 16.34 16.50	200 bis			9 10 15 15 - 15	5.00 - 5.28 5.33 - 5.70		15.00 15.33 15.70 15.34			Exi daj coz sar Dri Mo mo coz fra	Iremely weak, weak rec opled yellowish brown, arse ash crystal TUFF v dy SILT with some fine lling without sampling. derately strong, yellowi derately decomposed s arse ash crystal TUFF. ctured.	complet vith qua to med sh brow shightly i Rock is	tely decom artz vein. (\ dium grave vn spotted metamorpl generally	hposed Very stiff, el) white, hosed highly
	nall Distur rge Distu T Liner S 6 Undistu 00 Undis zier Sam ton Sam	rbed Sa Sample urbed Sa turbed S turbed S ple	mple ample		Pe Im Bo Pr Sta	ermeal press orehole essure andpip	bility ⁻ ion Pa e Tele emete be/Pie ane \$	Test acker eviewe er Test ezome Shear	er Test t ter Tip			OGGE SARRY DATE 07/07/ CHECK CESAF OATE 08/07/	202 (ED R W	U 3 BY ONG	20.00		REM	Dri	34- 16.50m: No recove npletely decomposed T lling without sampling.		med to be	

A memt (秦昇集團成員 A memt	JNDATION LIMITE	DRILLHOLE RECORD CONTRACT No. ND/2021/04 for San Tin / Lok Ma Chau Development Node	DRILLHOLE No. AEDH24 SHEET 3 of 4
METHOD ROTARY MACHINE / No. CCL-8 FLUSHING MEDIUM	3	CO-ORDINATES E 826 005.63 N 839 475.83 ORIENTATION Vertical	JOB No. J2202SF06 DATE from 04/07/2023 to 06/07/2023 GROUND LEVEL +10.09 mP.D.
Drilling Progress Casing depth/size puster (m) name (m) n	Recovery % Solid core R.Q.D. Fracture Index F.I./Test		Description tremely weak, yellowish brown (10YR 5/4) spotted ite, completely decomposed coarse ash crystal
2.50m at 18:00 06:07/2023 2.70m at 08:00	138 14 14 NA 27.50 27.69 14 14 27.50 NR 28.20	bis $\left \begin{array}{c} 12 \\ 22 \\ 20 \\ 20 \\ 20 \\ 20 \\ 50 \\ 12 \\ 20 \\ 50 \\ 14 \\ 25 \\ 14 \\ 25 \\ 55 \\ 14 \\ 25 \\ 25 \\ 15 \\ 14 \\ 25 \\ 25 \\ 15 \\ 14 \\ 25 \\ 25 \\ 15 \\ 11 \\ 28 \\ 20 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 17 \\ 10 \\ 10$	Ite, completely decomposed coarse ash crystal FF. (Very stiff, sandy clayey SILT) Illing without sampling. tremely weak, yellowish brown (10YR 5/4) spotted (ck, completely decomposed coarse ash crystal FF. (Very stiff, clayey SILT) Illing without sampling. derately weak, yellowish brown (10YR 5/4) dappled (ck and spotted white, highly decomposed slightly tamorphosed coarse ash crystal TUFF. (COBLE h some coarse gravel) 69- 27.97m: Moderately strong, moderately composed. 10- 28.20m: No recovery assumed to be mpletely decomposed TUFF. Iling without sampling.
Small Disturbed Sample Large Disturbed Sample SPT Liner Sample	Standard Penetration Test	-19.91 30.00	
SPT Liner Sample U76 Undisturbed Sample U100 Undisturbed Sample Mazier Sample Piston Sample Water Sample	Impression Packer Test Borehole Televiewer Test Pressuremeter Test Standpipe/Piezometer Tip In-situ Vane Shear Test X Inclinometer Test	07/07/2023 CHECKED BY	

										Г	וחי			_				_	DRILLHOLE No. AEDH24
٠H	Т Т	表昇地 YSAN	I FO	DUN	IDA	TIC	DN	LIM	ITED	L			HOL ACT I					ט	SHEET 4 of 4
PROJ	JECT	Adva	ance	Grou	und I	nves	tigat	ion V	Vorks fo	or Sai	n Tin	/ Lok N	la Chau	Dev	/elopn	nent N	ode		
METH	HOD	RO	TAR	Y					С)-OF	RDIN	ATES	;						JOB No. J2202SF06
									_			005.							
MACH	HINE /	NO.	CCI	8						١	1 839	475.	33						DATE from 04/07/2023 to 06/07/2023
FLUS	HING				DR				O	RIEN	TAT	ION	Ver			1			GROUND LEVEL +10.09 mP.D.
Drilling Progress	Casing depth/size	level (m) Shift start/ end	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples			00(m)	Legend	Grade		Description
	30.50	.50 at 78 191 bis 15															v	cor	tremely weak, white (N8) spotted yellowish brown, npletely decomposed coarse ash crystal TUFF. iff, clayey SILT)As Sheet 3 of 4.
																			d of drillhole at 30.50m.
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 ● Sm	all Distu	rbed Sa	mple		Sta	andar	d Per	etratio	on Test		1	OGGED	BY	F			REM	ARKS	3
‡ Lan	ge Distu T Liner S	rbed Sa			Pe	rmea	bility -				Ē	BARRY							
U76	6 Undisti 00 Undis	urbed Sa		, ,	во	rehol	e Tele		er Test		_	07/07/2 CHECKE							
Ma:	zier Sam	nple	Janip	-	Sta	andpi	pe/Pie	ezome	eter Tip		<u> </u>								
	ton Sam iter Sam				/ In- (Inc			Shear Test	rest			08/07/2	023						

PRO	Т Т	₹昇地 YSAN ^{₩昇集團成} Adva	J FC 員 Am) U N ember o	DA of Tysan	TIC Group) N			(NTR	ACT N	E RE Io. ND, Developr	/2021	/04	DRILLHOLE No. AEDH25 SHEET 1 of 4	
MET	HOD HINE /		TAR CCL						CO-	E 8	25 9	ATES 902.4 272.7	18				JOB No. J2202SF06 DATE from 10/07/2023 to 24/07/202	3
FLUS	SHING	MED	IUM		DRY	(ORII				Verti	cal			GROUND LEVEL +6.35 mP.E).
Drilling Progress	Casing depth/size	Water level (m) Shift start/ end	% Ai	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests		Samples	Campies	ಕ್ಕೆ Reduced ಜ Level (mPD)	o Depth 8(m)	Legend	Grade	Description	
10007/2023 SW Brown (10YR 5/3), sandy clayey SILT with some subangular fine to medium gravel sized rock fragments. (FILL) 10007/2023 18:00 18:00 18:00 19:007/2023 08:00 19:bis 19:bis 19:bis 19:bis																		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $															(ALLUVIUM)			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $														Extremely weak, yellowish red (5YR 5/8) dappled yellowish brown, completely decomposed slightly metamorphosed lapilli-coarse ash crystal TUFF. (St clayey SILT) Drilling without sampling.	iff,			
				100					58 bis		56	6.00 6.45 6.50	-0.15	- 6.00 - 6.50 - 6.50		v	Extremely weak, red (10R 4/8) spotted white, completely decomposed slightly metamorphosed lapilli-coarse ash crystal TUFF. (Stiff, clayey SILT) Drilling without sampling.	
Small Disturbed Sample Small Disturbed Sample Standard Penetration Test Large Disturbed Sample Permeability Test SPT Liner Sample Impression Packer Test U76 Undisturbed Sample Impression Packer Test 26/07/2023 Note Contended to the standard from 0.00m-1.50m.																		
Ma D Pis	00 Undis azier Sam ston Sam ater Sam	nple ple	Sampl	± ≜ ~	Sta	andpi situ V	oe/Pie ′ane \$	Shear	ter Tip		<u>CE</u> DA	IECKEI ESAR V ATE 7/07/20	VONG					

T	异地基工 YSAN FO ^{另集團成目 Ame Advance(}	UNDA ember of Tysa	TION Group)		E D		ITR/	ACT N	o. ND/	2021	/04	DRILLHOLE No. AEDH25 SHEET 2 of 4
METHOD	ROTAR	Y				RDINA		_				JOB No. J2202SF06
MACHINE /	No. CCL	-8				E 825 9 N 839 2						DATE from 10/07/2023 to 24/07/2023
FLUSHING I		DR			ORIE	ΝΤΑΤΙΟ	DN	Vertio	al	1		GROUND LEVEL +6.35 mP.D.
ng Iress ing h/size	level % (m) % Shift start/ end %	I otal core Recovery % Solid core Recovery %	R.Q.D. Fracture	Index F.I. / Test Depth	Tests	Samples		د الله Reduced د Level (mPD)	00 Depth 00 (m)	Legend	Grade	Description
15.00 19/07/2023 PW 20/07/2023 HW	1.30m at 18:00 1.50m at 08:00	100			38 bis 48 bis		10.00 10.45 10.50 15.00	<u>-4.15</u> 8.65	10.50			Extremely weak, red (10R 5/8) spotted brown, completely decomposed slightly metamorphosed lapili-coarse ash crystal TUFF. (Stiff, sandy clayey SILT) Drilling without sampling.
20/07/2023 ● Small Disturt ↓ Large Disturt □ SPT Liner St U76 Undistur	1.20m at 18:00 bed Sample bed Sample rbed Sample urbed Sample urbed Sample le ble	Pe Im Im Pr Bo Pr C Sta ✓ In-	100 2.7 52 NF andard Permeability pression rehole Te essureme andpipe/F	17.45 17.58 7 18.14 19.61 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75	st est Tip	BAI DA ¹ 26, CHI <u>CE</u> 3	15.50 16.78 18.14 19.33 19.75 3GED I 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	10.43 11.13 11.54 13.65 BY IU 23 PBY /ONG	- 16.78 - 16.78 - 17.48			clayey SILT) Drilling without sampling. Strong, dark grey striped and spotted black and white, slightly decomposed slightly metamorphosed coarse ash crystal TUFF. Joints are closely to medium locally very closely spaced, rough and smooth planar, extremely narrow, iron oxide stained, dipping at 10°-20°, 20°-30°, 30°-40°, 50°-60° and 60°-70°. 17.48-17.89m: Moderately strong, moderately decomposed. Drilling without sampling.

PROJE	T (\$	を昇地 YSAN ^{※昇集圏成} Adva	J FO 員 A me	U N mber o	DA f Tysan	TIC Group				С	ON	ITR/	ACT N	E RE	2021	/04	DRILLHOLE No. AEDH25 SHEET 3 of 4
METH MACH	line /	No.		-8	DR	/					25 9 39 2	02.4		cal			JOB No. J2202SF06 DATE from 10/07/2023 to 24/07/2023 GROUND LEVEL +6.35 mP.D.
Progress	Casing depth/size	Water level (m) Shift start start start 1.60m at 08:00 1.60m at 08:00 1.60m at 08:00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.														Grade	Description
21/07/2023		at			100 41 0	95 34 0	3.4 NA NA	20.59 22.85 23.31 23.47 24.65 24.97	78 bis		12 1001	20.59 22.09 23.47 24.97 25.00	<u>-16.96</u> -17.12 -18.30	22.65 23.31 23.47 24.65		 V V V	Extremely weak, dark grey (N4) spotted white, dappled reddish brown, completely decomposed slightly metamorphosed lapilli-coarse ash crystal TUFF. (Stiff, sandy clayey SILT) Strong, dark grey striped and spotted black and white, slightly decomposed slightly metamorphosed lapilli-coarse ash crystal TUFF. Joints are medium spaced, smooth planar, extremely narrow, iron oxide stained, dipping at 10°-20° and 40°-50°. 22.65- 23.31m: Moderately weak, highly decomposed. (Silty COBBLE with some medium to coarse gravel) 23.31- 23.47m: No recovery assumed to be completely decomposed TUFF. 23.47- 24.65m: Moderately weak, highly decomposed. (Silty COBBLE with some medium to coarse gravel) 24.65- 24.97m: No recovery assumed to be completely decomposed TUFF. Weak, brown (10YR 5/3) dappled yellowish brown, highly decomposed slightly metamorphosed lapilli-coarse ash crystal TUFF. (Coarse GRAVEL with occasional cobble) Drilling without sampling.
 Sma Larg SPT U100 Mazi Pisto 	je Distu Liner S Undistu	urbed Sa turbed S iple ple	mple		Per Imp Boi Pre Sta	rmea press rehol essur andpi situ V	bility 1 ion Pa e Tele emete pe/Pie	etratio Fest acker ⁻ eviewe er Test ezomet	r Test ter Tip	T2- T2- T2-	LOC BAR 26/ CHE CES DAT	07/202 ECKED SAR W	-21.53 -22.29 -22.50 3Y IU 23 BY (ONG	- 27.48 - 27.88 - 27.88 - 28.64 - 28.85 		III III III REMA	Strong, dark grey striped and spotted black and white, slightly decomposed slightly metamorphosed lapilli-coarse ash crystal TUFF. Joints are very closely to closely spaced, rough and smooth planar, extremely narrow, iron oxide stained, dipping at 20°-30°, 30°-40°, 50°-60°, 60°-70° and 70°-80°. 27.48- 27.88m: Moderately strong, moderately decomposed. 28.64- 28.85m: Moderately strong, moderately decomposed.

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PR	DJECT				-			ion V	Vorks fo	r Sai	n Tin / Lok M									
		- DO.																100	028506	
	THOD	RO		. 1							RDINATES E 825 902.4						JOB No.	JZZ	02SF06	
MA	CHINE	/ No.	CC	8							N 839 272.7						DATE from 10/07/	2023	to 24/	07/2023
FLU	ISHING				DR				OF		ITATION	Vertio	al				GROUND LEVEL		+6.35	mP.D.
g ess	Casing depth/size	Water level (m)	/erv %	core very %	Solid core Recovery %		ure	Test			oles	法 Reduced 양 Level (mPD)	£	p			Des	scriptio	on	
Drilling Progress	Casir depth	Shift start/ end	Water Recov	Total Reco	Solid Reco	R.Q.D.	Fracti Index	F.I. / Test Depth	Tests		Samples	Leve -23.62	00.00 00.00 00.00 00.00	Legend	Grade					
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·H	- 1	表昇地 YSAN	I FC	DUN	IDA	TIC)N I	IMI	TED	D					5 RE 0. ND/				SHEET 1 of 4
PROJ	IECT	Adva	ance	Grou	und I	nves	tigati	on W	orks fo	r Sar	n Tin	/ Lo	k Ma	a Chau I	Developr	nent N	lode		
METH	IOD	RO	TAR	Y					СС	D-OF	RDIN	NAT	ES						JOB No. J2202SF06
MACH		No	CCI	-8					_	E	82	6 05	58.66	6					DATE from 08/07/2023 to 11/07/2023
													11.79						
FLUS	_		-		DR` %				OF	RIEN	ITA	ΠΟΙ	N		al				GROUND LEVEL +7.53 mP.D.
Drilling Progress	Casing depth/size	level (m) Shift start/ end	Water Recovery %	Total core Recovery	Solid core Recovery	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		t Reduced 없 Level (mPD)	o Depth ⊗(m)	Legend	Grade		Description
-08/07/2023 	3 SW 13 bis 13 bis 14 15 +6.03 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50															mu	ark reddish grey (5YR 4/2), sandy clayey SILT with uch subangular and subrounded medium to coarse avel sized rock fragments. (FILL)		
	22.00m 3.00 23.00 13.00 14.53 2.00m 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 1.00 14.53 14.53 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 1																XXXIII	(A	ey (N5) dappled greyish brown, silty clayey SAND. LLUVIUM) illing without sampling.
08/07/2023 10/07/2023	SW	at 18:00 1.80m		100					17 bls		Ņ	3 4	3.00 3.45 3.50	+4.53	- - - - - - 3.50			wit gra	
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				89					9 bis			5	6.00 - 6.45 6.50	+1.53	6.00 - - - - - - - - - - - - -			co (St	tremely weak, yellowish red (5YR 5/8) striped black, mpletely decomposed coarse ash crystal TUFF. tiff, clayey SILT) illing without sampling.
-	10.00 PW								- T- /					-2.47	- - 10.00				
1 Lan	ge Distu	rbed Sai rbed Sa		. احال	Pe	rmea	bility 1	est	n Test			BAR	GED E RY YI -				REM 1. Insp		S n pit excavated from 0.00m-1.50m.
	T Liner S 3 Undist	Sample urbed Sa	ample		во	rehol	e Tele	acker 1 viewei	r Test			DATE 26/0	E 7/202	23					
U10)0 Undis zier San	turbed S	Sampl	e _				er Test zomet					CKED AR W	BY /ONG					
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PROJEC	泰昇地基工 TYSAN FOU ^{(新界集開成目 Amem} Advance G	JNDA7 ber of Tysan (FION LIN Group)		DRILLHOLE RECORD CONTRACT No. ND/2021/04 DRILLHOLE No. AEDH SHEET 2 of r San Tin / Lok Ma Chau Development Node	2 6 4
METHOD	ROTARY	3		co	D-ORDINATES JOB No. J2202SF06 E 826 058.66 DATE from 08/07/2023 to 12	
FLUSHIN	G MEDIUM	DRY	,	OF	N 839 311.79	3 mP.D.
Drilling Progress Casing	Mater Water Water Water Water Recovery % Total core	Recovery % Solid core Recovery %	R.Q.D. Fracture Index F.I. / Test	Tests	Description	
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	泰 昇 地 基 工 程 有 限 公 司 TYSAN FOUNDATION LI. (祖牙集團成員 Amember of Tysan Group) RO.IECT Advance Ground Investigation														- ~ ~			DRILLHOLE No. AEDH26	
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	秦昇地基工程有限公司 TYSAN FOUNDATION LI (編界集團成員 Amember of Tysan Group)							DRILLHOLE REC								DRILLHOLE No. AEDH26			
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•	泰昇地基工程有限公司 TYSAN FOUNDATION L (#現集開成員 Amember of Tysan Group)						DRILLHOLE RECOR								- ~ ~	_	DRILLHOLE No. AEDH29		
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METH	HOD	ROT	ΓAR	Y					СС	D-OR		IATE	ES						JOB No. J2202SF06
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FLUS	_	MEDI Water	-		DR` 。				OF		TAT	FION	1	Vertio	al				GROUND LEVEL +7.87 mP.D.
Drilling Progress	Casing depth/size	level (m) Shift start/ end	Water Recovery %	Total core Recovery ⁹	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests			Samples		4. Reduced 2. Level (mPD)	o Depth 8(m)	Legend	Grade		Description
12/07/2023	Dry at 18:00 23 Dry at 89									The second		в	0.45 0.50 0.95 1.00				XXXXXXXXX		m, yellowish red (5YR 5/8) dappled brown, sandy yey SILT. (FILL
- 12/07/2023 43/07/2023 - - - - - - - - - - - - - - - - - - -	at 18:00 Dry at 08:00 3.00 SW								24 bls		Ś	1	1.45 1.50 1.95 2.00	+6.37 +5.87	<u> </u>		×	spo me ∖sar	tremely weak, light grey (N7) dappled yellow and otted black, completely decomposed slightly etamorphosed lapilli-coarse ash crystal TUFF. (Stiff, ndy clayey SILT) // Illing without sampling.
								23 bis		Ş	3	3.00 - 3.45 3.50	+4.87	3.00			spo me ∖sar	tremely weak, light grey (N7) dappled yellow and otted black, completely decomposed slightly stamorphosed lapilli-coarse ash crystal TUFF. (Stiff, ndy clayey SILT) /lling without sampling.	
	100								19 bis		Ş	5	6.00 6.45 6.50	+1.87 +1.37				brc slig TU	tremely weak, red (10R 5/8) dappled yellowish wn and striped black, completely decomposed ghtly metamorphosed lapilli-coarse ash crystal IFF. (Stiff, slightly sandy clayey SILT) / Illing without sampling.
 ↓ Lar ↓ SP' ↓ U76 ↓ U10 ↓ Ma. ↓ Pis 	Large Disturbed Sample Permeability Test SPT Liner Sample Impression Packer U76 Undisturbed Sample Borehole Televiewe U100 Undisturbed Sample Pressuremeter Test Mazier Sample Standpipe/Piezome 						Test er Test t ter Tip			LOGG BARR DATE 26/07 CHEC CESA DATE 27/07	7/202 KED	BY 'ONG	- - - - - - - - - - - - - - - - - - -		REM.		S pit excavated from 0.00m-1.50m.		

AFREE T 2 of 4 PROJECT Advance Ground Investigation Works for San Tin / Lok Ma Chau Development Node METHOD ROTARY CO-ORDINATES E 825 993.23 N 839 216.18 JOB No. J2202SF06 MACHINE / No. CCL-3 CO-ORDINATES E 825 993.23 N 839 216.18 JOB No. J2202SF06 FLUSHING MEDIUM DRY ORIENTATION Vertical GROUND LEVEL +7.87 mP.D. Water (m) (m) (m) (m) (m) (m) (m) (m) (m) (m)	•		DRILLHOLE No. AEDH29
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N 839 216.18 FLUSHING MEDIUM DRY ORIENTATION Vertical GROUND LEVEL +7.87 mP.D. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <th0< td="" th<=""><td>MACHINE / No CCI -8</td><td> </td><td>DATE from 12/07/2023 to 15/07/2023</td></th0<>	MACHINE / No CCI -8		DATE from 12/07/2023 to 15/07/2023
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F	2.30m 15.00 at 13/07/2023 HW 2.50m 14/07/2023 HW 2.50m 14/07/2023 HW 2.50m	11 bis 7 7 10.45 -2.63 10.50 1 V spotte metar clayes Drillin 55 bis 9 15.00 -7.13 15.00 1 1 V Extrem view of the metar clayes Drillin 55 bis 9 15.00 -7.13 15.00 1 1 V Extrem view of the metar clayes Drillin	mely weak, greyish brown (10YR 5/2) spotted , completely decomposed slightly morphosed lapilli-coarse ash crystal TUFF. (Stiff, y SILT) , mely weak, greyish brown (10YR 5/2) spotted , completely decomposed slightly morphosed lapilli-coarse ash crystal TUFF. (Stiff, ly sandy clayey SILT)

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	HOD	RO ⁻ No.							CO	Εŧ	325 9	TES 993.2 216.1					-	JOB No. DATE from 1		202SF06			
Drilling Progress	Casing depth/size	MEDI Water level (m) Shift start/ end			Solid core D Recovery % D		Fracture Index	F.I. / Test Depth	Tests				Vertio (mPD) -12.13	cal (m) (m)	Legend	Grade		GROUND LEV	/EL Descript	_	′ mP.D.		
	22.73 HW			100				22.73	84 bis		11 12	20.00 20.45 20.50 22.73	14.00			~	brow meta sligh	Extremely weak, dark grey (N3) dappled yellowish rown, completely decomposed slightly netamorphosed lapilli-coarse ash crystal TUFF. (Stiff, lightly sandy clayey SILT) Strong, dark grey striped and spotted white, slightly ecomposed slightly metamorphosed lapilli-coarse sh crystal TUFF. Joints are medium to widely paced, smooth planar, extremely narrow, iron oxide					
	23	2.20m at 18:00 2.70m at 08:00		X	99 99 100 100 100 100	100	0.0	22.73			1	23.55 24.46 25.68 27.07 28.49	16.94				deco ash o spac stain 22.73 deco	composed slightly metamorphosed lapilli-coarse o crystal TUFF. Joints are medium to widely					
	2.40m Standard Penetratic Small Disturbed Sample Standard Penetratic Large Disturbed Sample Permeability Test SPT Liner Sample Impression Packer U76 Undisturbed Sample Borehole Televiewe U100 Undisturbed Sample Pressuremeter Test Mazier Sample Standpie/Piezome Piston Sample Insitu Vane Shear Water Sample Inclinometer Test						Test r Test ter Tip	T2-101 -28.94 -28.94 T2-101 -22.13 -30.00 est LOGGED BY BARRY YIU -22.13 -30.00 est DATE 26/07/2023 REMAR est 26/07/2023 CHECKED BY CESAR WONG REMAR					RKS										

	泰昇地基工程有限公司 TYSAN FOUNDATION L (發現集團成員 Amember of Tysan Group)							DRILLHOLE RE							`	DRILLHOLE No. AEDH29	
-H	Т Т	YSAN	I FC	DUN	IDA	TIC)N	LIM	ITED	L						ر	SHEET 4 of 4
PROJ	ECT	Adva	ance	Gro	und I	nves	tigat	ion V	Vorks fo	r Sa	n Tin / Lok Ma	a Chau E	Developn	nent N	ode		
METH	IOD	ROT	ΓAR	Y					СС	D-OF	RDINATES						JOB No. J2202SF06
MACH	HINE /	No.	CCI	8							E 825 993.2						DATE from 12/07/2023 to 15/07/2023
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Drilling Progress	Casing depth/size	(m) Shift start/ end	Water Recovery ⁹	Total core Recovery	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. / Test Depth	Tests		Samples	ର୍ଜ Reduced ର Level (mPD)	6 Depth 8 (m)	Legend	Grade		Description
15/07/2023		at 18:00			100						T2-101	-22.13	- - - 30.30				Sheet 3 of 4.
								30.00		30.30						En	d of drillhole at 30.30m.
Larg Larg SP ⁻ U76 U10	0 Undis	rbed Sai Sample urbed Sa turbed S	mple ample	le	Pe Im Bo	rmea press rehol essur	bility ion P e Tele emete	Test acker eviewe er Tes	er Test it		LOGGED I BARRY Y DATE 26/07/202 CFECKED	1U 23 • BY			REM	ARKS	
Maz	zier Sam	ple		ć	Sta	andpi	pe/Pie	ezome	eter Tip		CESAR W						
	U76 Undisturbed Sample						Test		DATE 27/07/202	23							

Appendix C General Site Photo



Photo 1: Drill Rig setup at EDH04



Photo 2: Drill Rig setup at EDH06



Photo 3: Decontamination of equipment between sampling events



Photo 4: Collection of equipment blank



Photo 5: Transferring sample from U100 to soil container



Photo 6: Transferring sample from U100 to soil container



Photo 7: Sample container and cooler storage pending deliver to laboratory



Photo 8: Photo of soil sample AEDH13 – 1.5m, primary sample is more clayey and brow (left), duplicate sample is more silty and with some grey colour (right)

Appendix DCertificates of Analysis and Summary of Test Results

Arsenic Result

Borehole	Depth	Date	Works Order	Sample ID	Arsenic (mg/kg)	Remark
EDH01	0.5	28/11/2022	HK2247360	HK2247360-001	1	
	1.5	28/11/2022		HK2247360-002	<u>215</u>	
	3	28/11/2022		HK2247360-003	<u>157</u>	
	6	29/11/2022	HK2247522	HK2247522-002	25	
	6	29/11/2022		HK2247522-003	29	Duplicate Sample
	10	29/11/2022		HK2247522-004	1	
	15	29/11/2022		HK2247522-005	1	
	20	29/11/2022		HK2247522-006	3	
	25	29/11/2022		HK2247522-007	7	
	30	30/11/2022	HK2247659	HK2247659-001	1	
EDH02	0.5	30/12/2022	HK2251810	HK2251810-001	<u>339</u>	
	1.5	30/12/2022		HK2251810-002	<u>345</u>	
	3	30/12/2022		HK2251810-003	73	
	6	30/12/2022		HK2251810-004	18	
	10	30/12/2022		HK2251810-005	2	
	15		HK2251831	HK2251831-001	1	
	20		HK2300146	HK2300146-001	4	
EDH03	0.5		HK2301814	HK2301814-001	104	
	1.5	11/01/2023		HK2301814-002	59	
	3	11/01/2023		HK2301814-003	43	
	6	11/01/2023		HK2301814-004	30	
	10		HK2302048	HK2302048-001	161	
	15	12/01/2023		HK2302048-002	15	
	20	12/01/2023		HK2302048-003	1140	
	25		HK2302279	HK2302279-001	1090	
	30	13/01/2023		HK2302279-002	946	
EDH04	0.5		HK2233830	HK2233830-001	5	
-	1.5	26/08/2022		HK2233830-002	121	
	3	26/08/2022		HK2233830-003	57	
	6	26/08/2022		HK2233830-004	70	
	10		HK2233896	HK2233896-001	1	
	15		HK2234038	HK2234038-001	2	
	20			HK2234038-002	12	
	25			HK2234038-003	8	
	30			HK2234038-004	10	
EDH05	0.5		HK2232309	HK2232309-001	198	
201100	1.5			HK2232309-002	178	
	3	16/08/2022		HK2232309-003	163	
	6		HK2232545	HK2232545-001	<u>105</u> 196	
	10			HK2232545-001	16	
	15			HK2232545-002	30	
	20		HK2232681	HK2232681-001	73	
	25			HK2232681-001	20	
	30			HK2232681-002	57	
	30	18/08/2022		LIKZZ3Z001-003	57	

Borehole	Depth	Date	Works Order	Sample ID	Arsenic (mg/kg)	Remark
EDH06	0.5	09/12/2022	HK2249394	HK2249394-002	<u>276</u>	
	0.5	09/12/2022		HK2249394-003	<u>251</u>	Duplicate Sample
	1.5	09/12/2022		HK2249394-004	<u>297</u>	
	3	09/12/2022		HK2249394-005	<u>608</u>	
	6	09/12/2022		HK2249394-006	8	
	10	10/12/2022	HK2249515	HK2249515-001	3	
	15	10/12/2022		HK2249515-002	<u>179</u>	
	20	12/12/2022	HK2249641	HK2249641-001	<u>77</u>	
	25	12/12/2022		HK2249641-002	<u>85</u>	
	30	12/12/2022		HK2249641-003	42	
EDH07	0.5	05/12/2022	HK2248371	HK2248371-001	8	
	1.5	05/12/2022		HK2248371-002	56	
	3	05/12/2022		HK2248371-003	39	
	6	05/12/2022		HK2248371-004	<u>450</u>	
	10	05/12/2022		HK2248371-005	<u>268</u>	
	15	05/12/2022		HK2248371-006	<u>126</u>	
	20.0-20.50	06/12/2022	HK2248634	HK2248634-001	<u>80</u>	
	25.0-25.50	06/12/2022		HK2248634-002	332	
	30.0-30.50	06/12/2022		HK2248634-003	408	
EDH08	0.5		HK2247659	HK2247659-002	47	
	1.5	30/11/2022		HK2247659-003	64	
	3	30/11/2022		HK2247659-004	64	
	6	01/12/2022	HK2247873	HK2247873-001	180	
	10	01/12/2022		HK2247873-002	1060	
	15	01/12/2022		HK2247873-003	40	
	20	02/12/2022	HK2248074	HK2248074-001	51	
	25	02/12/2022		HK2248074-002	97	
	30	02/12/2022		HK2248074-003	42	
EDH09	0.5	31/12/2022	HK2251832	HK2251832-001	25	
	1.5	31/12/2022		HK2251832-002	12	
	1.5	31/12/2022		HK2251832-003	12	Duplicate Sample
	3	31/12/2022		HK2251832-005	17	
	6		HK2300145	HK2300145-001	<u>76</u>	
	10	03/01/2023		HK2300145-002	82	
	15			HK2300145-003	20	
	20	03/01/2023		HK2300145-004	5	
	25		HK2300440	HK2300440-001	72	
	30	04/01/2023		HK2300440-002	129	
AEDH01	0.5		HK2325099	HK2325099-001	25	
	1.5	28/06/2023		HK2325099-002	6	
	3	28/06/2023		HK2325099-003	20	
	6	28/06/2023		HK2325099-004	12	
	10	28/06/2023		HK2325099-005	<1	
	15			HK2325099-006	1	
	20		HK2325212	HK2325212-001	<1	

Borehole	Depth	Date	Works Order	Sample ID	Arsenic (mg/kg)	Remark
AEDH03	0.5	23/06/2023	HK2324517	HK2324517-001	16	
	1.5	23/06/2023		HK2324517-002	<u>86</u>	
	3	23/06/2023		HK2324517-003	25	
	6	23/06/2023		HK2324517-004	7	
	10	23/06/2023		HK2324517-005	15	
	10	23/06/2023		HK2324517-006	16	Duplicate Sample
	15	23/06/2023		HK2324517-008	16	
	20	24/06/2023	HK2324624	HK2324624-001	7	
	25	24/06/2023		HK2324624-002	3	
	30	26/06/2023	HK2324726	HK2324726-001	3	
AEDH10	0.5	29/05/2023	HK2320671	HK2320671-001	<u>596</u>	
	1.5	29/05/2023		HK2320671-002	<u>822</u>	
	3	29/05/2023		HK2320671-003	<u>946</u>	
	6	29/05/2023		HK2320671-004	65	
	10	29/05/2023		HK2320671-005	<u>382</u>	
	15	30/05/2023	HK2320827	HK2320827-001	<u>238</u>	
	20	30/05/2023		HK2320827-002	<u>336</u>	
	25	30/05/2023		HK2320827-003	<u>113</u>	
	30	30/05/2023		HK2320827-004	<u>89</u>	
AEDH11	0.5	29/05/2023	HK2320666	HK2320666-001	<u>294</u>	
	1.5	29/05/2023		HK2320666-002	<u>584</u>	
	3	29/05/2023		HK2320666-003	20	
	6	29/05/2023		HK2320666-004	11	
	10	29/05/2023		HK2320666-005	26	
	15	29/05/2023		HK2320666-006	77	
	20	29/05/2023		HK2320666-007	112	
	25	30/05/2023	HK2320828	HK2320828-001	564	
	30	30/05/2023		HK2320828-002	183	
AEDH12	0.5		HK2321437	HK2321437-001	57	
	1.5	02/06/2023		HK2321437-002	70	
	3	02/06/2023		HK2321437-003	61	
	6	02/06/2023		HK2321437-004	2	
	10	03/06/2023	HK2321519	HK2321519-001	194	
	15		HK2321667	HK2321667-001	238	
	20			HK2321667-002	236	
	25	05/06/2023		HK2321667-003	<u>230</u>	
	30	05/06/2023		HK2321667-004	215	
AEDH13	0.5		HK2321145	HK2321145-001	53	
	1.5			HK2321145-002	116	
	1.5	01/06/2023		HK2321145-003		Duplicate Sample
	3	01/06/2023		HK2321145-004	335	
	6	01/06/2023		HK2321145-006	9	
	10		HK2321440	HK2321440-001	238	
	15			HK2321440-002	254	
	20		HK2321663	HK2321663-001	399	
	25			HK2321663-002	175	
	30			HK2321663-003	198	

Borehole	Depth	Date	Works Order	Sample ID	Arsenic (mg/kg)	Remark
AEDH14	0.5	09/06/2023	HK2322623	HK2322623-001	68	
	1.5	09/06/2023		HK2322623-002	<u>148</u>	
	3	09/06/2023		HK2322623-003	<u>238</u>	
	6	09/06/2023		HK2322623-004	17	
	6	09/06/2023		HK2322623-005	14	Duplicate Sample
	10	10/06/2023	HK2322678	HK2322678-001	17	
	15	12/06/2023	HK2322770	HK2322770-001	<u>97</u>	
	20	12/06/2023		HK2322770-002	<u>92</u>	
	25	12/06/2023		HK2322770-003	<u>195</u>	
	30	12/06/2023		HK2322770-004	100	
AEDH23	0.5	16/06/2023	HK2323726	HK2323726-001	<u>92</u>	
	1.5	16/06/2023		HK2323726-002	70	
	3	16/06/2023		HK2323726-003	15	
	6	16/06/2023		HK2323726-004	10	
	10			HK2323726-005	23	
	15			HK2323726-006	67	
	20	17/06/2023	HK2323839	HK2323839-001	44	
	25	17/06/2023		HK2323839-002	107	
	30		HK2323914	HK2323914-001	33	
AEDH24	0.5		HK2326088	HK2326088-001	17	
	1.5	05/07/2023		HK2326088-002	131	
	3			HK2326088-003	65	
	6			HK2326088-004	194	
	10	05/07/2023		HK2326088-005	333	
	15			HK2326088-006	131	
	20	05/07/2023		HK2326088-007	19	
	25	06/07/2023		HK2326347-001	62	
	30	06/07/2023		HK2326347-002	23	
AEDH25	0.5	19/07/2023		HK2328593-001	23	
	1.5	19/07/2023		HK2328593-002	10	
	3			HK2328593-003	4	
	6			HK2328593-004	3	
	10			HK2328593-005	2	
	15			HK2328741-001		
	15			HK2328741-002		Duplicate Sample
	20			HK2329042-001	2	
	25			HK2329042-002	6	
AEDH26	0.5		HK2326917	HK2326917-001	17	
	1.5			HK2326917-002	10	
	1.5			HK2326917-003		Duplicate Sample
	3		HK2327069	HK2327069-001	3	
	6			HK2327069-002	38	
	10			HK2327069-003	4	
	15	, ,		HK2327069-004	40	
	20			HK2327069-005	15	
	25			HK2327069-006	73	
	30			HK2327238-001	226	

Borehole	Depth	Date	Works Order	Sample ID	Arsenic	Remark
					(mg/kg)	
AEDH29	0.5	13/07/2023	HK2327799	HK2327799-001	<u>81</u>	
	1.5	13/07/2023		HK2327799-002	32	
	3	13/07/2023		HK2327799-003	15	
	6	13/07/2023		HK2327799-004	<u>232</u>	
	6	13/07/2023		HK2327799-005	<u>249</u>	Duplicate Sample
	10	13/07/2023		HK2327799-006	<u>80</u>	
	15	14/07/2023	HK2328092	HK2328092-001	<u>221</u>	
	20	14/07/2023		HK2328092-002	<u>207</u>	

Note:

<u>1060</u>	indicate exceedance of 571 mg/kg and RBRG for all landuse scenario
42	indicate exceedance of RBRG for Rural Residential & Urban Residential
<u>129</u>	indicate exceedance of RBRG for Rural Residential, Urban Residential & Public Parks
<u>339</u>	indicate exceedance of RBRG for all landuse scenario

Quality Assurance/Quality Control

Borehole	Depth	Date	Works Order	Sample ID	Arsenic	Remark
					(mg/kg)	
Duplicate sample						
EDH01	6	29/11/2022	HK2247522	HK2247522-002	25	
EDH01	6	29/11/2022	HK2247522	HK2247522-003		Duplicate Sample
				centage Difference:	14.8%	
EDH06	0.5	09/12/2022	HK2249394	HK2249394-002	<u>276</u>	
EDH06	0.5	09/12/2022	HK2249394	HK2249394-003	<u>251</u>	Duplicate Sample
			Relative Per	centage Difference:	9.5%	
EDH09	1.5	31/12/2022	HK2251832	HK2251832-002	12	
EDH09	1.5	31/12/2022	HK2251832	HK2251832-003	12	Duplicate Sample
				centage Difference:	0.0%	
AEDH03	10	23/06/2023	HK2324517	HK2324517-005	15	
AEDH03	10	23/06/2023	HK2324517	HK2324517-006	16	Duplicate Sample
				centage Difference:	6.5%	
AEDH13	1.5	01/06/2023	HK2321145	HK2321145-002	116	
AEDH13	1.5	01/06/2023	HK2321145	HK2321145-004	48	Duplicate Sample
			Relative Per	centage Difference:	82.9%	
AEDH14	6	09/06/2023	HK2322623	HK2322623-004	17	
AEDH14	6	09/06/2023	HK2322623	HK2322623-005	14	Duplicate Sample
			Relative Per	centage Difference:	19.4%	
AEDH25	15	20/07/2023	HK2328741	HK2328741-001	7	
AEDH25	15	20/07/2023	HK2328741	HK2328741-002	7	Duplicate Sample
			Relative Per	centage Difference:	0.0%	
AEDH26	1.5	08/07/2023	HK2326917	HK2326917-002	10	
AEDH26	1.5	08/07/2023	HK2326917	HK2326917-003	8	Duplicate Sample
	-	-	Relative Per	centage Difference:	22.2%	
AEDH29	6	13/07/2023	HK2327799	HK2327799-004	232	
AEDH29	6		HK2327799	HK2327799-005	249	Duplicate Sample
	-	-	Relative Per	centage Difference:	7.1%	

Note:

Note.	
	<u>1060</u>
	42
	<u>129</u>
	220

indicate exceedance of 571 mg/kg and RBRG for all landuse scenario

indicate exceedance of RBRG for Rural Residential & Urban Residential

indicate exceedance of RBRG for Rural Residential, Urban Residential & Public Parks

indicate exceedance of RBRG for all landuse scenario

Equipment Blank	Date	Works Order	Sample ID	Arsenic	Remark
				(µg/L)	
Equipment Blank	31/12/2022	HK2247522	HK2247522-001	<10	
Equipment Blank	09/12/2022	HK2249394	HK2249394-001	<10	
Equipment Blank	01/06/2023	HK2321145	HK2321145-005	<10	
AEDH14 Equipment Blank	09/06/2023	HK2322623	HK2322623-006	<10	
AEDH3 Equipment Blank	23/06/2023	HK2324517	HK2324517-007	<10	
Equipment Blank	08/07/2023	HK2326917	HK2325099-004	<10	
AEDH29 (Equipment Blank)	13/07/2023	HK2327799	HK2327799-007	<10	
AEDH25 (Equipment Blank)	20/07/2023	HK2328741	HK2328741-003	<10	

CHAIN OF CUSTODY DOCUMENTATION (Failure to complete all sections of this form may delay analysis.)

Part 1: Reporting Information		Part 2: Billing Information for Invoice (If different from Reporting Information)	rent from Reporting Inform	ation)
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6156 7251		Phone: Submission form		
race refer	to submission torm	Invoice Address:		
			ALS I echnichem (HK) Pty Ltd	n (HK) Pty Ltd
Part 3: Project & Sample Information	$\frac{1}{1}$	Part 4: Test Required		
No:	ALS Quotation No: HYE (H55/20			
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st	Regular 🗹 / Express (5) 🗌 / Double Express (3) 🔲		· · · label use	use
(Working Day): Others 🔲 (Pis specify date required	ecify date required)			
Cooler Security Seal: Sealed 🗹 / Broke	Sealed 🗹 / Broken 🗌 / Not Available 🔲	>) \		
Package: Cooler box 🗹 / Ce	Cooler box $\overline{\mathbb{M}}$ / Carton box \Box / Plastic bag \Box / Others:()			
ure Condition:	ent 🗌 / Frozen 🔲 🤹 °C			
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3 FDHOI (2.0m)	1 22-1-56 1			
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Part 6: Handling Information				
Sampling Conducted by:	Sampling Supervised by:	Samples Picked up & Delivered By:	Samples Received	ed by:
Company Name: Tysun	Company Name:	Company Name:	Company Name:	415
Responsible Person: Te 3' Kin	Responsible Person:	Responsible Person:	Responsible Person:	and by on
Date & Time: 7-3/11 Thursday	Date & Time:	Date & Time:	Date & Time: Σ_i	× 11/ Doir 16:4
Signature:	Signature:	Signature:	Signature:	, 1
ALS Technichem (HK) Pty Ltd Address: 11/F, Chung Shi	/ing Yip Street, Kwai Chung, N.T., Hong Kong	Tel: +852 2610 1044	.com WHITE - LAB ; YELLOW-CLIENT; GREEN-BOOK COPY	ENT; GREEN-BOOK COPY

CHAIN OF CUSTODY DOCUMENTATION (Failure to complete all sections of this form may delay analysis.)

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								ALS	ALS Technichem (HK) Pty Ltd	
Part 3: Project & Sample Information	nple Information					Part 4: Test Required				
P.O. / Client Order No:		ALS (ALS Quotation No: 거ドど	$\overline{\}$	455/2022					
Project Name / ID: Con		21104	Advonie	Ø	Trowny					
Investigation 1	Works for Sau Tin/Lok Ma	ok ma	chan D	Development	f Node					
Site Name / ID:				-					For ALS HK Workorder	×
Service Request	Regular $\Box i$ Express (5) \Box / Double Express (3) \Box) 🗌 / Dou	Ible Express	(3) 🗌			,		label use	
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Cooler Security Seal:	Sealed Ed Broken 🗌 / Not Available 🗌	Not Avail	able 🗌		*),n				
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Part 5/ Handline Information	rmation									
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Company Name:	Try Sour	Company Name:	Name:			Company Name:		Company Name:	ALS	
Responsible Person:	Brian 199-1	Responsil	Responsible Person:			Responsible Person:		Responsible Person:	SON: JAM NIK	
Date & Time:	29/11/22	Date & Time:	me:			Date & Time:		Date & Time:	-1 220C/11/b5	200
Signature:	3 AM	Signature:				Θ		Signature:	Į L	
ALS Technichem (HK) Pty Ltd	ALS Technichem (HK) Pty Ltd Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Vip Street, Kwai Chung, N.T., Hong	g Centre, 1-3	Wing Yip Street, K	wai Chung, N.T.	Kong	Tel: +852 2610 1044 Fax: +852 2610 2021 Er	Email: HongKong@alsglobal.com		WHITE - LAB ; YELLOW-CLIENT GREEN-BOOK COPY	< сорү

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P.O. / Client Order No:		ALS Quotation No: 1-	17KF /145C / 205)				
Project Name / ID: $\int \sigma_{M}$	Contract No. ND/2021	104 Advonle 1	id Zn	······			
WORKS FOR SOM	n/ Le	Chan Development	rent Node'				
Site Name / ID:						For AL	For ALS HK Workorder
Service Reauest	Regular D/Express (5	Regular 🖽 Express (5) 🗌 / Double Express (3) 🗖					label use
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Cooler Security Seal:	Sealed Edit Broken	🕂 Broken 🗌 / Not Available 🗍		<u>)</u> ,n			
Packade:	Cooler box 🗹 / Carton box 🛛 / Plastic bag		□ / Others:() □	175 175			
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Part 5: Handling Information	mation					- -	-
Sampling C	Sampling Conducted by:	Sampling S	sampling supervised by:	Samples Picked up & Delivered by:	o & Delivered by:	Samples K	samples Received by:
Company Name:	5+	Company Name:		Company Name:		Company Name:	6 HL>
Responsible Person:	1351 am 752	Responsible Person:		Responsible Person:		Responsible Person:	KNM MC
Date & Time:	32.02	Date & Time:	-	Date & Time:		Date & Time:	ap: 11 1202/11/02
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Part 1: Reporting Information				Part 2: Billing Informati	lon for Invoice (If diff	Part 2: Billing information for involce (if different from Reporting Information)	nformation)
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Phone:			(1 St 7251'	Phone:			
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							(ALS)
						ALS Tech	ALS Technichem (HK) Pty Ltd
Part 3: Project & Sam	Part 3: Project & Sample Information			Part 4: Test Required			
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Part 5: Handling Information	mation						
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Responsible Person:	Briew 75	Responsible Person:		Responsible Person:	X) MOUNA.	Responsible Person:	Keten tan
Date & Time:	30-11-22	Date & Time:		Date & Time:	30-11 2	Date & Time:	30-Dec-Joss (7=24
Signature:	3 A	Signature:		Ð		natu	the
ALS Technichem (HK) Pty Ltd	Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong	ing Centre, 1-3 Wing Yip Street,	Kong	Tei: +852 2610 1044 Fax: +852 2610 2021	21 Email: HongKong@alsglobal.com		WHITE - LAB ; YELLOW-CLIENT, GREEN-BOOK COPY

Part 1: Reporting Information	optimo Information				t 2: Billing Information for Invo	nation for l	nvoice (If dif	ferent from	Part 2: Billing Information for Invoice (If different from Beporting Information)	ormation
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Part 3: Project & Sample Information	nformation			Part 4: Ti	Part 4: Test Required					
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ALS Technichem (HK) Pty Ltd Add	ALS Technichem (HK) Pty Ltd Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong	1-3 Wing Yip Street, Kwa	Kong	Tel: +852 2610 1044	Fax: +852 2610 2021		Email: HongKong@alsglobaf.com		HITE - LAB ; YELLOW	WHITE - LAB ; YELLOW-CLIENT; GREEN-BOOK COPY

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ure Condition:	Chilled 🖸 Lambient 🗌 / Frozen 🗖	/ Frozen		54			
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ALS Technichem (HK) Pty Ltd	Address: 11/F, Chung Shun Knitti	ALS Technichem (HK) Pty Ltd Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong	Kong	Tel: +852 2610 1044 Fax: +852 2610 2021	021 Email: HongKong@alsglobal.com		WHITE - LAB ; YELLOW-CLIENT; GREEN-BOOK COPY

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em (HK) Pty Ltd	Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong	ting Centre, 1-3 Wing Yip Stree	t, Kwai Chung, N.T., Hong Kong	Tel: +852 2610 1044	0 1044 Fax: +852 2610 2021	Email: HongKong@alsglobal.com		WHITE - LAB ; YELLOW-CLIENT; BREEN-BOOK COPY	сору

Part 1: Reporting Information	Simation					Part 2: B	illing info	rmation f	or Invoice	(If differe	int from Rep	Part 2: Billing Information for Invoice (If different from Reporting Information)	ation)
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Responsible Person:	Brian ZR	Respons	Responsible Person:			Responsi	Responsible Person:	:u		ъ	Responsible Person:	Person: G	dts Cheme
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ALS Technichem (HK) Pty Ltd	Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong	itting Centre, 1-5	3 Wing Yip Street, Ki	wai Chung, N.T.,		Tel: +852 2610 1044	Fax: +852 2610 2021		Email: HongKong@alsglobal.com	@alsglobal.co		- LAB ; YELLOW-CLI	WHITE - LAB ; YELLOW-CLIENT; GREEN-BOOK COPY

aLE Technichem (HK) Pty Ltd Address: 1/1F, Chundy Shun Knittling Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 Email: HongKong@alsglobal.com WHITE - LAB; YELLOW-CLIEN (CREN-BOOK COPY 300 ALS Technichem (HK) Pty Ltd For ALS HK Workorder 101224 march 1204 Part 2: Billing Information for Invoice (if different from Reporting Information) Samples Received by: label use Remarks മ Responsible Person: Company Name: Date & Time: Signature: Client Contact Name! 201F, OME ISIANON SOUTH, 2 HEONG YIP RA, NONG CHUK HANG Client Contact Name: SAMPLE SUBMISSION (v) Tick the requested test Samples Picked up & Delivered By: Dlease refer CHAIN OF CUSTODY DOCUMENTATION (Failure to complete all sections of this form may delay analysis.) Tor Vi ¢, Phone: 2830 1545 Part 4: Test Required Responsible Person: Company Name: Company Name: Invoice Address: Date & Time: Signature: E-mail: JINSSYA \geq ≻ ccshum stlinc@qmail.com intrig.comconcontocrane.t.pulyu.h tainers Project Name / ID: COMTrait No. ND/2021 / 04 Advance Ground Investigation tios of ALS Quotation No: HKE /1455 / 2022 WORKS FOR San Tin / LOK MA Chan Develoyment Nock Report Address: Cl5011W&ng. Sì @ t45GM. Com / tuduìp . Sì @ t45uM. Com Sampling Supervised by: Sampling. Time 24-3-22 15=00 26 - 8 - 22 | 15 = 30 26-8-22 16 200 51 = 91 Cooler box 🗹 / Carton box 🗌 / Plastic bag 🔲 / Others:(Regular 🚺 / Express (5) 🗌 / Double Express (3) 🔲 oleuse refer to stimple submission form? ပ Sample ID / Sample Name (This description will be appeared on report, Mamy Sampling Date 26-8-92 Responsible Person: Company Name: Sealed 🔲 / Broken 🔲 / Not Available 🗹 Date & Time: Others 🔲 (Pls specify date required Chilled 📈 / Ambient 🗌 / Frozen 🔲 Signature: Company Name: Tv50N FOUNDATION LimitCO Suil les. 1 jos 50) | Part 3: Project & Sample Information E-mail: teduip.si @tuson.com Sampling Conducted by: 198V Part 6: Handling Information 100 Part 1: Reporting Information EDH04 (0.5 m) EPH 04 (1.5 m EDH 04 (3.0 m EDH 04 (6.0 m) Site Name / ID: CMUM Temperature Condition: Phone: b15b' 1251 Responsible Person: P.O. / Client Order No: Cooler Security Seal: Company Name: Service Request (Working Day): Date & Time: Signature: Package: 3 \$₽ 3 4

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			ALS Lechnichem (HK) Pty Ltd
Part 3: Project & Sample Information	1100 / 11000 /	Part 4: Test Required	
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Part 5: Handling Information			
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ALS Technichem (HK) Pty Ltd	Address: 11/F, Chung \$hun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong	ting Centre, 1-	3 Wing Yip Street,	Kwai Chung, N.7		Tel: +852 2610 1044	Fax: +852 2610 2021		Email: HongKong@alsglobal.com	sglobal.com	WHITE - LAB ; YELL	WHITE - LAB ; YELLOW-CLIENT, GREEN-BOOK COPY	сору

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Part 3: Project & Sample Information	le Information			Part 4: Test Required			
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ALS Technichem (HK) Ptv td	Address: 11/F Chuna Shun Knit	1/F Chung Shun Knitting Centre. 1-3 Wing Yip Street. Kwai Chung, N. I., Hong Kong			Ettiall. Turignurg@aisgiuuar.curr		

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Part 1: Reporting Information	mation					Part 2: Billing Information for Invoice (if different from Reporting Information)	lation for involce	(If differe	nt from Reporting	Information)
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Part 3: Project & Sample Information	le Information					Part 4: Test Required				
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Part 5: Handling Information	tation									
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ALS Technichem (HK) Pty Ltd Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong	Address: 11/F. Chung Shun Knitti	ing Centre, 1-3 Wi	ing Yip Street, Kwa	ii Chung, N.T., Hong K.		Tel: +852 2610 1044 Fax: +852 2610 2021	2021 Email: HongKong@alsglobal.com	@alsolobal.cor		WHITE - LAB : YELLOW-CLIENT: GREEN-BOOK COPY

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ALS Technichem (HK) Pty Ltd	Address: 11/F, ¢hung Shun Knitt	Ving Yip Street, Kwai Chung, N.T., Hong Kong	Tel: +852 2610 1044 Fax: +852 2610 2021 Em	Email: HongKong@alsglobal.com		WHITE - LAB ; YELLOW-CLIENT; GREEN-BOOK COPY

WHITE - LAB ; YELLOW-CLIENT; GREEN-BOOK COPY 6:30 ALS Technichem (HK) Pty Ltd For ALS HK Workorder Part 2: Billing Information for Invoice (If different from Reporting Information) **B**101231 12/2422 an ma Samples Received by: Remarks label use Responsible Person: Company Name: Date & Time: Signature: ALS Technichem (HK) Pty Ltd Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 Email: HongKong@alsglobal.com to (*) Tick the requested test refer Samples Picked up & Delivered By: Sorw Plas Subwil sslon Client Contact Name: Part 4: Test Required Responsible Person: Company Name: Company Name: Invoice Address: Date & Time: Signature: E-mail: Phone: J. vos My Investigation Total nos of Containers 12021 tysan , com Lî p 1455 Sampling Supervised by: tec 9.30 felyip is la Sample ID / Sample Name Matrix Sampling Date Sampling (This description will be appeared on report). ビジン 4,00 Cooler box $\overline{\mathbb{U}}'$ / Carton box $\overline{\mathbb{U}}$ / Plastic bag $\overline{\mathbb{U}}$ / Others:(7251 Punel? No de Form ALS Quotation No: HKE Regular 🗹/ Express (5) 🗌 / Double Express (3) 🗍 ပ္ bisb 22-21-1-12-22 Advonce -12-21-Responsible Person:) evelopment Sealed 🐨 Broken 🗖 / Not Available 🛛 Company Name: Subuilssi on Cimite. Date & Time: Others 🔲 (Pls specify date required Chilled 🗹/ Ambient 🗆 / Frozen 🗖 104 Signature: 5071 2011 Soj 1 Town bouflow ND/2021 ٠ ۲ San Tin / Lok Ma Chau Part 3: Project & Sample Information a (5 B(1000 732 refer EDH08 (lo.00 M) EDHOS CIK.WM Sampling Conducted by: Project Name / ID: Contract No. JU SAM - b. OO m 1-12-22 TYSAH Part 5: Handling Information Part.1:: Reporting Information Please Temperature Condition: Client Contact Name: Responsible Person: P.O. / Client Order No: Cooler Security Seal: INH OS Company Name: Company Name: Report Address: Service Request Works for Site Name / ID: Working Day): Date & Time: Signature: Package: Phone: E-mail: Q rn)

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ALS Technichem (HK) Pty Ltd	ALS Technichem (HK) Pty Ltd Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong	tting Centre, 1-3 Wing Yip Si	treet, Kwai Chung, N.T	Kong	Tel: +852 2610 1044	Fax: +852 2610 2021		Email: HongKong@alsglobal.com	alsglobal.com	WHITE - LAB ; YELI	WHITE - LAB ; YELLOW-CLIENT; GREEN-BOOK COPY

Company Name: Client Contact Name:			Salat C. Salat a Long P. M. 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ALS Technichem (HK) Pty Ltd	Address: 11/F, Chung Shun Knitt	Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong	Kwai Chung, N.T., Hong Kong	Tel: +852 2610 1044	1044 Fax: +852 2610 2021		Email: HongKong@alsglobal.com		WHITE - LAB ; YELLOW-CLIENT; GREEN-BOOK COPY	N-BOOK COPY

ALS Technichem (HK) Pty Ltd Address: 11/F, Churd Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 Email: HongKong@alsglobal.com WHITE - LAB; YELLOW-CLIENT; GREEN-BOOK COP 2 ALS Technichem (HK) Pty Ltd For ALS HK Workorder **B**102187 16/203 うろう Samples Received by: label use Remarks ALS Part 2: Billing Information for Invoice (If different from Reporting Information) Responsible Person: Company Name: Date & Time: Signature: tor in р Samples Picked up & Delivered By: (V) Tick the requested test Please feder submicion CHAIN OF CUSTODY DOCUMENTATION (Failure to complets all sections of this form may delay analysis.) Client Contact Name: Part 4: Test Required Responsible Person: Company Name: Company Name: Invoice Address: Date & Time: Signature: Phone: E-mail: ついろ > 7 Investigation 14 55/222 toten Total nos of Containers Please refer to Sulawissian Sampling Supervised by: Lower D HKE / Cooler box \mathbb{P}' Carton box \square / Plastic bag \square / Others: (0715 Matrix Sampling Date Sampling development incla 13,00 0,50 14:15 telyip. Si caturium com 9.天 14:H Regular $\Box /$ Express (5) $\Box /$ Double Express (3) \Box ပ္ ALS Quotation No: 28-6-23 26-2-82 ALVANC 28 - 6-23 22-9-82 Responsible Person: 28-9-82 156 7254 28-6 Company Name: Sealed 🗌 / Broken 🔲 / Not Available ⊿ 1 miles Others 🗌 (Pls specify date required _ Date & Time: Temperature Condition: Chilled 🗹 / Ambient 🗆 / Frozen 🗆 Signature: Project Name / ID: Contract No , ND/2021 /0 4 Tin / Lon mon Charl S So() _ بر SJ. I 50. 2 Farm dout low Sample 10, Sample Name (This description will be appeared on report) ray lybu 3,00M) 52 - 1 - 82 (, <u>50</u>w) 10.00 - - - - q (S,S,W)15.001 くろしつ Part 3: Project & Sample Information Sampling Conducted by: MARKIN Part 1: Reporting Information Part 5: Handling Information Car S Client Contact Name: AFO12 AEDH O P.O. / Client Order No: AEDIA 01 Responsible Person: **Cooler Security Seal:** Company Name: AEDHOI 4<u>2</u>D1-01 AEDH ol Company Name: Warks Fac Report Address: Service Request (Working Day): Site Name / ID: Date & Time: Signature: Package: Phone: E-mail: **ALS** Ŀ đ

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ALS Technichem (HK) Pty Ltd Address: 11/F, Churd Shon Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 Email: HongKong@alsglobal.com WHITE - LAB; YELLOW-CLIENT; GREEN-BOOK COPY ALS Technichem (HK) Pty Ltd For ALS HK Workorder **B**102183 Т Э С Samples Received by: label use Remarks Part 2: Billing Information for Invoice (If different from Reporting Information) Responsible Person: Company Name: Date & Time: Signature: warstinduis of 10 for a $(\sqrt{})$ Tick the requested test Samples Picked up & Delivered By: J'ar [~] CHAIN OF CUSTODY DOCUMENTATION (Failure to complete all sections of this form may delay analysis.) Please Client Contact Name: Part 4: Test Required Responsible Person: Company Name: Company Name: Invoice Address: Date & Time: Signature: Phone: E-mail: Jugar , development inde 1455/2222 Total nos of Containers LIGWING] Sampling Supervised by: 14 Juanle Cooler box \square /Carton box \square / Plastic bag \square / Others: ((1,45) ALS Quotation No: 14/K[-/ Sampling Date Time 29-5-23 14:30 10:30 11.15 29-5-22 13:30 Regular 🖓 🗡 Express (5) 🗌 / Double Express (3) 🗍 Chan ပ္ いいや 29-5-53 29-5-12 <u> 19-5-15</u> Responsible Person: imite 5 Sealed 🗌 / Broken 📋 / Not Available 🗔 Company Name: 124 LOK MA Date & Time: Others \Box (Pls specify date required Cubuission Temperature Condition: Chilled Crambient C / Frozen Signature: ND/2221 ted sip : Si CartySan. Coun ALS Sample ID / Sample Name Matrix ID (This description will be appeared on report) /_ برگار 50% 50,1 1,02 Ĵ, Fambridia ţ AEDIA (O CG.00 W) JUSAT W20.01 AEDHISLOTSOW 2-2-12 AFDH 10CSNUM refer to Brian TS (M o (· C) J S V 100-Part 3: Project & Sample Information Sampling Conducted by: 6156725 Nost Nost putract 100 Part 1: Reporting Information Part 5: Handling Information AEDH 10 Please ۴ AEDHIU Client Contact Name: P.O. / Client Order No: Responsible Person: in up stigation **Cooler Security Seal:** Project Name / ID: Company Name: Company Name: Report Address: Service Request (Working Day): Site Name / ID: Date & Time: Signature: Phone: Package: E-mail: M F S

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Date & Time: Date & Signatu	Responsible Person:	Briew R	Responsible Person:		Responsible P	Person:	Responsible Person:	- F
Signature:	Date & Time:	30-5-13	Date & Time:		Date & Time:		Date & Time:	724/ (12/2) 04
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Part 1: Reporting Information		Part 2: Billing Information for Invoice (If different from Reporting Information)	rom Reporting Information)
Foundartion	Gmited	Company Name: Please redar to Submission	
	Ted Kip	Client Contact Name: みみらん	TOTIONT
E-mail:	ted vin Si du tysan	. 🗘 س E-mail:	
Phone:	1156, 7251	Phone:	
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X			ALS Technichem (HK) Ptv Ltd
Part 3: Project & Sample Information			
Project Name / ID: Construct we Ni D /	1110/11	/ 0	
v//n/ mar (ha	alament was de		
ame / ID:			
Service Request Regular 1 Express (5	Regular 🗹 Express (5) 🗌 / Double Express (3) 🗌		For ALS HK Workorder label use
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Cooler Security Seal: Sealed 🗌 / Broken 🗌 / Not Available 🗓]/ Not Available	<u>ر</u> د	
Package: Cooler box 🖳 Cartor	Cooler box 🗹/ Carton box 🗆 / Plastic bag 🔲 / Others: (
ture Condition:	/ Frozen 🗌C	t/	
ALS Sample ID / Sample Name	Matrix Sampling Date Sampling	Total nos of (V) Tick the requested test	Remarks
I AEDHII (O.So m)	501 24-5-23 10:00		
2 AEDI-11 (1.50 m)	So:1 29-5-23 10:15		
$(\mathcal{M} \circ \mathcal{E})$ $ H \cap \mathcal{I} \vee \langle \mathcal{E} \rangle$	50:1 29-5-22 10:30		
4 ACDHII (6.00 m)	201 29-5-23 11:15		
	Soil 24-5-73 12:00		
AEDI-11 215.00	Soil 29.5-23 14:45		
7 AEDHII (20.00m)	5071 29-5-23 15:30		
Part 5: Handling Information			
Sampling Conducted by:	Sampling Supervised by		Samples Received by:
Company Name: 7/54/N	Company Name:		Company Name:
Responsible Person: Srjaw 2	Responsible Person:	Person:	Responsible Person:
Date & Time: 24 - 5 - 23	Date & Time:	le:	Date & Time: ">1 (3 (202) (620
2	Signature:		
ALS Technichem (HK) Ptv Ltd Address: 11/F. Chung Shun Knitti	11/F. Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.I., Hong Kong	Iel: +852 2010 1044 Fax: +852 2010 2021	

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Company Name:	Tyson boundation limited	Company Name: Plence vn for +	
Client Contact Name:	Ted tip	Client Contact Name: Ste Div i 28 13h Srm	B 102184
E-mail:	ted yip; si car tysan, com	E-mail:	
Phone:	h(56 725)	Phone:	
Report Address:	Please refer to submitsion	Invoice Address:	
	Local Contract		

					-	Fair 2: billing information for invoice (if different from Reporting Information)	adon for invoice (if dif	иетелт пот кероплу	(mormation)
Company Name:		Tyson	retundation	r Liwit	~716 2	Company Name:	Please rodi	Jer 12	
Client Contact Name:		Ted Y	2			Client Contact Name:	Stabiniossian	Sorm	D TUZI04
E-mail:		ted Vipi	لم) أكر أ	tysan, com		E-mail:			
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	for	Form							
					-			ALS	ALS Technichem (HK) Pty Ltd
Part 3: Project & Sample information	i Information					Part 4: Test Required			
P.O. / Client Order No:		ALS	ALS Quotation No:	エドの	1455/2022				
Project Name / ID: Con tract	ND. ND.	12021	104 Advance	213	╡.				
Invostigation For	San Tin /			7	Dovelonent Node.	· · ·		- 1) - 	
Service Request	Regular 🖂 Express (5) 🗌 / Double Express (3)	5) 🗌 / Dou	Juble Express (3						For ALS HK Workorder
	Others 🗌 (Pls specify date required	date requ	ired		~				
Cooler Security Seal: 5	Sealed 🗌 / Broken 🗌 / Not Available 🖡	/ Not Ava	ilable Ӷ 🖊						
Package:	Cooler box 🕅 //Carton box 🗆 / Plastic bag 🗖 / Others: (ו / 🗆 xod ר	Plastic baq	/ Others: (755 J			
ura Condition:	"hilled []/ Amhient [ر در		·) /			
] ار					
ALS Sample ID / ID (This description will t	Sample ID / Sample Name (This description will be appeared on report)	Matrix	Sampling Date Sampling Time	Sampling Time	Total nos of Containers	(v) Tick	(V) Tick the requested test		Remarks
1 ALEDHII ((mao, 25)	5071	30-5-23	北北	13,00				
2 AFDI-11 ((ZO.00m)	5071	20-5-23		6				
				, ,					
- - - - - -									
Part 5: Handling Information	tion								
Sampling Conducted by:	ducted by:		Sampling Supervised by:	upervised t	y:	Samples Picked	Samples Picked up & Delivered By:	Samp	Samples Received by:
Company Name:	74 Saun	Company Name:	y Name:			Company Name:		Company Name:	415
Responsible Person:	Brian 12	Responsi	Responsible Person:			Responsible Person:		Responsible Person:	n: Jawa
Date & Time:	20-5-23	Date & Time:	ime:			Date & Time:		Date & Time:	30/1-12023.16tt
Signature:	J. C.	Signature:	:e			Signature:		Signature:	· · · · · ·
LS Technichem (HK) Pty Ltd Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong	dress: 11/F, Chung Shun Knittir	ing Centre, 1-3	3 Wing Yip Street, Kw	vai Chung, N.T.,		Tel: +852 2610 1044 Fax: +852 2610 2021 Email: HongKong@alsglobal.com	2021 Email: HongKong@alse		WHITE - LAB : YELLOW-CLIENT: GREEN-BOOK COPY

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Company Name: 74 500	1 Farnda tion	Ton Limited		Company Name:			100170
Client Contact Name: τb_{1} , γ	ζρ. (Φ	*		Client Contact Name:	le:		TUDET
E-mail:	1 b · Si Ca -	tusan.com		E-mail:			
Phone: 615	6 725	Υ		Phone:	theory we set t	¢	
Report Address: Plocks	reder .	10 SND WISSION	n form	Invoice Address:	Ϋ́	be W	
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Site Name / ID	MAC JOL	I'IN/ LOK IND CHAN	Den I unwhith V	<u>ې</u> ر		1	
				12		4 2	
	ע Express (5) ∟	Regular LV Express (5) □ / Double Express (3) □ 		5.04			
(working Day): Others	Others 🔲 (Pls specify date required	required		~			
Cooler Security Seal: Sealed 🗤	Sealed 💵 Broken 🔲 / Not Available	Available 🗌					
Package: Cooler box	Cooler box D/ Carton box D / Plastic bag	□ / Plastic bag □ / Others:(thers:() 🗌				
ure Condition:	Chilled V/Amhient 7 / Frozen						and a second second second second second second second second second second second second second second second
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2 AEDHIZ(3)	(m20	Joil 2-6-21 10	14 (30 1				
4 ARDIA 1266		1 21-9-7 100	5; 10 1				
Part 5: Handling Information				· 思考多多的。			
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Company Name: 7v 5d/h		Company Name:		Company Name:		Company Name:	AUS
Responsible Person:	740	Responsible Person:		Responsible Person:		Responsible Person:	John K
Date & Time: 2 - 6 - 2	ひ Date	Date & Time:		Date & Time:		Date & Time:	an1 200/9/20
Signature:	Sign	X Signature:	<u>.</u>	Signature:		Signature:	-4

WHITE - LAB ; YELLOW-CLIENT; GREEN-BOOK COPY 05021 رر ALS Technichem (HK) Pty Ltd 100471For ALS HK Workord Part 2: Billing Information for Involce (If different from Reporting Information) Dania Samples Received by: label use Å Remarks A L A മ Responsible Person: Company Name: Date & Time: Signature: 6 For S Signature: Joynature: Joynature: Joignature: Joignature: Joignature: Joignature: Joignature: Joignature: Joynature: r (ン) Tick the requested test 2010 00 155100 Samples Picked up & Delivered By: CHAIN OF CUSTODY DOCUMENTATION (Failure to complete all sections of this form may delay analysis.) please Part 4: Test Required Client Contact Name: Responsible Person: Company Name: Company Name: Invoice Address: Date & Time: Signature: Phone: E-mail: Jinsity Janne Investignate HFE/145/2022 Total nos of Containers ~ 20× Sampling Supervised by: Wede Matrix Sampling Date Sampling 11:00 Cooler box $\Box \mathcal{M}$ Carton box \Box / Plastic bag \Box / Others:(rejssim gus 1 Twiter Regular igsirpi r/ Express (5) \Box / Double Express (3) \Box Development ů ALS Quotation No: Advonce Si (a fysan , Com Responsible Person: -9-73 Company Name: Sealed 🔲 / Broken 🔲 / Not Available 🗍 Date & Time: Chilled 댄/ Ambient □ / Frozen □ Ferr dation Signature: P ok ma charr مالم No. NDLOLLAG Part 3: Project & Sample Information Sample ID / Sample Name (This description will be appeared on report) 50 30 L Ц К (0.00 m) È -25 Ļ Sampling Conducted by: thy saw N Rr N TL AVIP 13/16m Part 1: Reporting Information 5 er Vol م ب Part 5: Handling Information Project Name / ID: Controuct Please 550 AEDHIZ Temperature Condition: Client Contact Name: Responsible Person: P.O. / Client Order No: Cooler Security Seal: Company Name: Company Name: ð Report Address: Service Request Site Name / ID: (Working Day): Date & Time: Signature: Nor Its Package: Phone: E-mail: ALS D

Part 1: Reporting Information	nation			Part 2: Billing Information for Invoice (If different from Reporting Information)	If different from Reporting	u Information)
Company Name:	Ty Sun Zown dattak	ATAR LINIAC		Company Name:		
Client Contact Name:	, te é	din g		Client Contact Name:		D T004/3
E-mail:	4e6 .	410 151 Car Ty Sam , Cow	in , Coin	E-mail:		
Phone:	6156 7251			Phone:		
Report Address:		Please refer	fo	Invoice Address: Ple ~ X Plar	-0	
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Part 3: Project & Sample Information	e Information			Part 4: Test Required		
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Works For	Sam Tin/ Loic ma	Chain	whit Node			
Site Name / ID:		_				For ALS HK Workorder
Service Request	tegular ⊠ / Express (t	Regular $ec D$ / Express (5) \Box / Double Express (3) \Box	3) 🗆	· · · · · · · · · · · · · · · · · · ·		label use
	Others	date required				
Cooler Security Seal: S	Sealed 🔲 / Broken 🔲 / Not Available 🗓	/ Not Available				
Package:	Sooler box (1) Carton	Cooler box []// Carton box [] / Plastic bag [] / Others:(/ Others:()			
Temperature Condition: 0	Chilled 🛛 Ambient 🗆 / Frozen 🗆		S	4-1		a state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta
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Part 5: Handling Information	ation					
Sampling Conducted by:	nducted by:	Sampling	Sampling Supervised by:	Samples Picked up & Delivered By:	Samples	Samples Received by:
Company Name:	Tusan	Company Name:		Company Name:	Company Name:	ALS
Responsible Person:		Responsible Person:		Responsible Person:	Responsible Person:	Gar, Chema
Date & Time:	15-6-25	Date & Time:		Date & Time:	Date & Time:	5-6243 175
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ALS Technichem (HK) Pty Ltd A	Vddress: 11/F, Chung Shun Knitti.	Address: "11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		Tel: +852 2610 1044 Fax: +852 2610 2021 Email: HongKong@alsglobal.com		WHITE - LAB · YEU OWLCI JENT GREEN-BOOK COPV

WHITE - LAB ; YELLOW-CLIENT; GREEN-BOOK COPY 2 ALS Technichem (HK) Pty Ltd For ALS HK Workorder **B** 100468 Part 2: Billing information for invoice (if different from Reporting Information) $\ddot{}$ シート (jeg) Samples Received by: label use Remarks Responsible Person: Company Name: Date & Time: Signature: ALS Technichem (HK) Pty Ltd Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung. N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 Email: HongKong@alsglobal.com SJO (🗸) Tick the requested test Samples Picked up & Delivered By: CHAIN OF CUSTODY DOCUMENTATION (Failure to complete all sections of this form may delay analysis.) NO JON Svb w155]20 Part 4: Test Required Client Contact Name: Responsible Person: Please Company Name: Company Name: Invoice Address: Date & Time: Signature: E-mail: Phone: Jingenic 2 2 2 > westedfy Total nos of Containers しっし M) OF inited Sampling Supervised by: pelselmans 14,20 16,8 frankch Matrix Sampling Date Sampling حر (4) 14:20 (4:4) Cooler box/ $\square/$ Carton box \square / Plastic bag \square / Others:(드 14.2. 156715 Regular 🗤 Express (5) 🗌 / Double Express (3) 🗍 edylp. 151 (au ty Gam, colm <u>ي</u> No 20 な いい ALS Quotation No: Fornant Purpon JUDALO 102 Responsible Person: [-|-<u>|</u>-1- 1-1 Company Name: 1 Sealed 🔲 / Broken 🔲 / Not Available 🗹 ¥ in a chall developiniant Date & Time: Others 🗌 (Pls specify date required 4 Chilled Id / Ambient | / Frozen | Signature: No. ND/521/04 DINE <u>ج</u> گر . R 50 2 So' رية KUDAU (This description will be appeared on report) please Sample ID / Sample Name کومر San AFDHIS COSOM) بگ بگ ", Som Dupl', rate r Equipment blank Part 3: Project & Sample Information 5 Ē NDS NI AED14136 6,000 Sampling Conducted by: Rijah 3 ۲ Part 1: Reporting Information Part 5: Handling Information Project Name / ID: (ah Trout 2 LF.DH 13 AFDH 15 Temperature Condition: Responsible Person: Client Contact Name: tor Saw IIn, P.O. / Client Order No: Cooler Security Seal: A EDH13 Company Name: Company Name: Report Address: Service Request **AEDHIS** Site Name / ID: (Working Day): Date & Time: Signature: Package: Phone: E-mail: ALS Ω 3 ٥ 4 (\frown)

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ALS Technichem (HK) Pty Ltd	Address: 11//F, Chung Shun Knitt	ing Centre, 1-3 Wing Yip S	treet, Kwai Chung, N		Tel: +852 2610 1044		Fax: +852 2610 2021		ail: HongK	Email: HongKong@alsglobal.com	bal.com	WHITE - LAB;	YELLOW-CLIEN	WHITE - LAB ; YELLOW-CLIENT, GREEN-BOOK COPY

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ALS Technichem (HK) Pty Ltd	Address: $11/F$, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong	ig Centre, 1-3 Win	ng Yip Street, Kw	ai Chung, N.T., Ho	Kong	Tel: +852 2610 1044 Fax: +852 2610 2021	2021 Email: HongKong@alsglobal.com	alsglobal.com	WHITE - LAB ; YELLO	WHITE - LAB (YELLOW-CLIENT) GREEN-BOOK COPY

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ALS Technichem (HK) Pty Ltd	Address: 11/F, Chung Shun Kni	ALS Technichem (HK) Pty Ltd Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		Tel: +852 2610 1044		WHITE - LAB ; YELLOW-CLIENT; GREEN-BOOK COPY

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ALS Technichem (HK) Pty Ltd	ALS Technichem (HK) Ptv Ltd Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong	ing Centre, 1-3 Wing Yip St	treet, Kwai Chung, N.T	Kong	Tel: +852 2610 1044	Fax: +852 2610 2021	Email: HongKong@alsgtobal.com		NHITE - LAB ; YELLC	WHITE - LAB ; YELLOW-CLIENT; GREEN-BOOK COPY

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WHITE - LAB ; YELLOW-CLIENT; GREEN-BOOK COPY ALS Technichem (HK) Pty Ltd For ALS HK Workorder 100479 2 Part 2: Billing Information for Invoice (If different from Reporting Information) Samples Received by: label use **Remarks** ന Responsible Person: and the second second Company Name: Date & Time: Signature: Dor W ALS Technichem (HK) Pty Ltd Address M1/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 Email: HongKong@alsglobal.com to riverally of 16 20 (k) Tick the Tequested test Samples Picked up & Delivered By: Please Part 4: Test Required Client Contact Name: Responsible Person: Company Name: Company Name: nvoice Address: Date & Time: Signature: Phone: E-mail: J'ARN' Invost/cutten Containers lotal nos of 2200 100 00 Sampling Supervised by: 195 Sampling * Time DONCHAMELT Node Cooler box 🖓 Carton box 🗆 / Plastic bag 🔲 / Others:(ЫK (Troined 10 K b.3° I WHE Regular \Box / Express (5) \Box / Double Express (3) \Box SUL DWISSION ပ္ ALS Quotation No: Responsible Person: Advound Mathix Sampling D 19-6-23 to Salv Sealed 🔲 / Broken 🔲 / Not Available 🕡 Company Name: Date & Time: FOUNDATION Others 🔲 (Pls specify date required Chilled D/Ambient | / Frozen | Signature: 5000 M C/ M DOLLON ğ 3 4 LOK Ma (This description will be appeared on report) をどう 9 ، 10 کر کر حا 3 Part 3: Project & Sample Information Sample ID / Sample Name ARDHZZ CJ0, DC NM 4 Sampling Conducted by: NUN MAN INSOUN (SC AM 1-1 V 156 Plpa SC Part 1: Reporting Information Tin / Part 5: Handling Information Project Name / ID: (2nt/(n/J WORKS For with Temperature Condition: Client Contact Name: Responsible Person: P.O. / Client Order No: Cooler Security Seal: Company Name: Company Name: Report Address: Service Request (Working Day): Site Name / ID: Date & Time: Signature: Package: Phone: E-mail: ALS,

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ALS Technichem (HK) Pty Ltd A	ALS Technichem (HK) Pty Ltd Address: 11/F, Ch/hg Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hon	ng Centre, 1-3 Wing Yip Stre∉	*t, Kwai Chung, N.T., Hong Kong Tel.	ig Kong Tel: +852 2610 1044 Fax: +852 2610 2021	52 2610 2021 Email: HongKong@alsglobal.com		WHITE - LAB ; YELLOW-CLIENT; GREEN-BOOK COPY

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20 5 2 5 רוומוה, ואון החווק הסווק וואו ALS Technichem (HK) Pty Ltd Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai

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a ungronged ALS Technichem (HK) Pry Ltd Address: 71/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.I., Hong Kong Iei: +852 2010 1044 Fax: +852 2010 2021

3 ALS Technichem (HK) Pty Ltd For ALS HK Workorder nary (here **B**102194 12027 Samples Received by: label use Remarks Part 2: Billing Information for Invoice (If different from Reporting Information) Responsible Person: Company Name: Date & Time: Signature: シャガ ۴ reder (4) Tick the requested test Samples Picked up & Delivered By: 2n binision Please CHAIN OF CUSTODY DOCUMENTATION (Failure to complete all sections of this form may delay analysis.) Client Contact Name: Part 4: Test Required Responsible Person: 45 mm Founder 12m 12m 1 tel Company Name: Company Name: Invoice Address: Date & Time: Signature: E-mail: Phone: Ŵ JURK Voluted Development 1V020 SI Cartyson, Low 1455 / SOL Total nos of **Containers** ₿ Invest) cater よっくどう 2 Sampling Supervised by: VCJOV 17 ALS Quotation No: ートド / Cooler box $\overline{a}/$ Carton box \overline{a} / Plastic bag \overline{a} / Others: (Matrix Sampling Date Sampling Time 00-5: が 13:40 4. 45 11,5 13:50 4:17 Wewlsslow 3 Advonce Unraund teduro. and on Regular \Box $\check{}$ Express (5) \Box / Double Express (3) \Box PLEASE ပ္ 1 یں ج (3-7-23 [1]-7-[] 11-7-11 Responsible Person: 12-2-51 (2-7-2) 13-7-13 11-10-11 (r</ Company Name: Sealed 🗌 / Broken 🗍 / Not Available 🗍 Others 🔲 (Pls specify date required _ Date & Time: Temperature Condition: Chilled 🗹 Ambient 🗆 / Frozen 🗇 Signature: San Tin / Cok Mr. Char Arread <u>ا</u>يخ Water <u>^</u>, | 59:1 t-ig 5 21 ." "S , ,9 No ND/204/04 (This description will be appeared on report) Equipment Blank) A , Do m duplicate 0.00m 17/21 0.50 m+ . 00 m Sample ID / Sample Name (. Š o w) v.00v) Part 3: Project & Sample Information 1502 Reliain 12 Sampling Conducted by: Part 1: Reporting Information Project Name / ID: Confronct Part 5: Handling Information AEDH)9 AEDH29 Client Contact Name: AE VH 29 AEDH 20 A EDH 2 AEDH24 HURLEU E P.O. / Client Order No: DFDH 29 Responsible Person: Cooler Security Seal: Works Inc Company Name: Company Name: Report Address: Service Request Site Name / ID: (Working Day): Date & Time: Signature: Package: Phone: E-mail: \$ ALS Ð لہ \$ £

ALS Technichem (HK) Pty Ltd Address: 11/F, Olury Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 Email: HongKong@alsglobal.com WHITE - LAB; YELLOW-CLIENT; GREEN-BOOK COPY

ALS Technichem (HK) Pty Ltd Address 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 Email: HongKong@alsglobal.com WHITE - LAB; YELLOW-CLIENT GREEN-BOOK COPY ALS Technichem (HK) Pty Ltd For ALS HK Workorder Remarks 217/2025 **B**102191 Samples Received by: label use م بر الم Part 2: Billing Information for Invoice (If different from Reporting Information) Responsible Person: Company Name: Date & Time: Signature: subwighter torm f lease refer (v) Tick the requested test Samples Picked up & Delivered By: CHAIN OF CUSTODY DOCUMENTATION (Failure to complete all sections of this form may delay analysis.) Client Contact Name: Part 4: Test Required Responsible Person: Company Name: Company Name: Invoice Address: Date & Time: Signature: Phone: E-mail: J.MOA 7 Containers Total nos of ALS Quotation No: MKE/(4)5/); 2L Invollgutlon Sampling Supervised by: Sampling Time Cooler box ${f Y}/$ Carton box ${f D}$ / Plastic bag ${f D}$ / Others: (Not 00(0) <u>୍ର</u> - -Solw Regular 🗌 / Express (5) 🔲 / Double Express (3) 🗗 Project Name / ID: Cartleuct no ND/20 21 /04 Addruce (JOUNC ů Cluelopment (This description will be appeared on report) Matrix Sampling Date Jun Ital 14/7/23 1000 41742 Responsible Person: 14 17/28 NO 1852 Mars Company Name: Sealed 🖽 Broken 🗌 / Not Available 🖸 TYSAN.COM Date & Time: Others 🗌 (PJs specify date required . Temperature Condition: | Chilled 🖾 Ambient 🗌 / Frozen 🔲 Signature: JAR Founder of Sell 201 掠 f Ц 20-00m) (m 00-Works For say Tin Lok mon MBQ.OL OUL Part 3: Project & Sample Information Sample ID / Sample Name 14/7/23 5000 Sampling Conducted by: Bhan 74 14 Sev ted vil P/P ous Part 1: Reporting Information 145an 6156 Part 5: Handling Information AFRI 23 Client Contact Name: Responsible Person: APDH 20 P.O. / Client Order No: Cooler Security Seal: APINH 201 Company Name: Company Name: Report Address: Service Request (Working Day): Site Name / ID: Date & Time: Signature: Package: E-mail: Phone: ALS Q r

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact Address	 CESAR, KA HO WONG 20/F, ONE ISLAND SOUTH, 2 HEUNG YIP ROAD, WONG CHUK HANG, HONG KONG HONG KONG 	Contact Address	 Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong 	Work Order	: HK2247360
E-mail Telephone Facsimile Project	 CesarWong.si@tysan.com +852 2511 9826 CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION V 	E-mail Telephone Facsimile	: richard.fung@alsglobal.com : +852 2610 1044 : +852 2610 2021	Date Samples Received	: 28-Nov-2022
Order number	NODE : J2202SF06	Quote number	: HKE/1455/2022	Issue Date	: 06-Dec-2022
C-O-C number Site	: B101228 : SAN TIN / LOK MA CHAU			No. of samples received No. of samples analysed	: 3 : 3

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the testing laboratory. Hong Kong Accreditation Service (HKAS) has accredited this laboratory, ALS Technichem (HK) Pty Ltd (Reg. No. HOKLAS 066) under Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS Directory of Accredited Laboratories. This document has been signed by those names that appear on this report and are the authorised signatories.

Signatories	Position	Authorised results for
An Ang		
Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

ALS Technichem (HK) Pty Ltd Part of the ALS Laboratory Group

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 www.alsglobal.com



General Comments

This report supersedes any previous report(s) with the same work order number. All pages of this report have been checked and approved for release. When sampling time information is

not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 28-Nov-2022 to 06-Dec-2022.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2247360

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.

Sample(s) as received, digested by in-house method E-ASTM D3974-09 prior to determination of metals. The in-house method is developed based on ASTM D3974-09 method.



Analytical Results

Sub-Matrix: SOIL			Sample ID	EDH01	EDH01	EDH01		
				(0.5m)	(1.5m)	(3.0m)		
		Samplii	ng date / time	28-Nov-2022 11:30	28-Nov-2022 15:25	28-Nov-2022 16:00		
Compound	CAS Number	LOR	Unit	HK2247360-001	HK2247360-002	HK2247360-003		
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	9.0	15.0	11.4		
EG: Metals and Major Cations						-	-	
EG020: Arsenic	7440-38-2	1	mg/kg	1	215	157		



Laboratory Duplicate (DUP) Report

Matrix: SOIL					Labora	atory Duplicate (DUP)	Report	
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)
sample ID							Result	
EA/ED: Physical and Age	gregate Properties (QC Lot: 47456	76)						
HK2246831-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	13.9	13.5	2.6
HK2246990-005	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	14.9	14.8	0.0
EG: Metals and Major Ca	ations (QC Lot: 4737681)							
HK2247360-002	EDH01 (1.5m)	EG020: Arsenic	7440-38-2	1	mg/kg	215	252	15.9

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL			Method Blank (MB) Report		Laboratory Contr	rol Spike (LCS) and Labora	tory Control S	oike Duplicate (i	DCS) Report	
					Spike Concentration	Spike Re	covery (%)	Recove	ry Limits(%)	RP	D (%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 4737681)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	104		87.2	110		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: SOIL					Matrix Spi	ike (MS) and Matrix	Spike Duplica	ate (MSD) Re	eport	
				Spike	Spike Re	acovery (%)	Recovery	Limits (%)	RPD	(%)
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit
EG: Metals and M	Major Cations (QC Lot: 4737681)									
HK2247360-001	EDH01 (0.5m)	EG020: Arsenic	7440-38-2	10 mg/kg	103		75.0	125		

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 7 Client Laboratory Page : HK2247522 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 . Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT Date Samples Received : 29-Nov-2022 Project NODE : J2202SF06 : HKE/1455/2022 : 08-Dec-2022 Order number Quote Issue Date number C-O-C number : B101229 : 7 No. of samples received : SAN TIN / LOK MA CHAU : 7 No. of samples analysed Site

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the testing laboratory. Hong Kong Accreditation Service (HKAS) has accredited this laboratory, ALS Technichem (HK) Pty Ltd (Reg. No. HOKLAS 066) under Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS Directory of Accredited Laboratories. This document has been signed by those names that appear on this report and are the authorised signatories.

Signatories	Position	Authorised results for
Cha Ang		
Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

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General Comments

This report supersedes any previous report(s) with the same work order number. All pages of this report have been checked and approved for release. When sampling time information is

not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 29-Nov-2022 to 07-Dec-2022.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2247522

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.

Water sample(s) were filtered prior to dissolved metal analysis.

Sample(s) as received, digested by in-house method E-ASTM D3974-09 prior to determination of metals. The in-house method is developed based on ASTM D3974-09 method.



Analytical Results

Sub-Matrix: SOIL			Sample ID	EDH01	EDH01	EDH01	EDH01	EDH01
				(6.0m_Duplicate)	(6.00m)	(10.00m)	(15.00m)	(20.00m)
		Samplir	ng date / time	29-Nov-2022 10:05	29-Nov-2022 10:05	29-Nov-2022 11:25	29-Nov-2022 14:14	29-Nov-2022 15:15
Compound	CAS Number	LOR	Unit	HK2247522-002	HK2247522-003	HK2247522-004	HK2247522-005	HK2247522-006
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	28.5	28.9	17.5	22.3	10.2
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	29	25	1	1	3

Page Number : 4 of 7 Client : TYSAN FOUNDATION LTD Work Order HK2247522



Sub-Matrix: SOIL			Sample ID	EDH01				
			(25.00m)					
Sampling date / time			ng date / time	29-Nov-2022 16:15				
Compound	CAS Number	LOR	Unit	HK2247522-007				
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	20.2				
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	7				

age Number lient 'ork Order	 5 of 7 TYSAN FOUNDATION LTD HK2247522 							ALS
Sub-Matrix: WA	TER			Sample ID	Equipment Blank			
			Sampli	ng date / time	29-Nov-2022 09:30			
Compound		CAS Number	LOR	Unit	HK2247522-001			
EG: Metals and	EG: Metals and Major Cations - Filtered							
EG020: Arse	nic	7440-38-2	10	µg/L	<10			



Laboratory Duplicate (DUP) Report

Matrix: SOIL					Labora	atory Duplicate (DUP)	Report		
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)	
sample ID							Result		
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 4745676)							
HK2246831-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	13.9	13.5	2.6	
HK2246990-005	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	14.9	14.8	0.0	
EG: Metals and Major	Cations (QC Lot: 4737681)								
HK2247360-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	215	252	15.9	
Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)	
sample ID							Result		
EG: Metals and Major	Cations - Filtered (QC Lot: 4	1737641)							
HK2247522-001	Equipment Blank	EG020: Arsenic	7440-38-2	1	µg/L	<10	<10	0.0	

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

	-										
Matrix: SOIL			Method Blank (ME	3) Report		Laboratory Contro	ol Spike (LCS) and Labora	tory Control S	pike Duplicate (DCS) Report	
					Spike	Spike Rec	covery (%)	Recovery Limits(%)		RPL) (%)
			1		Concentration						
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 4737681)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	104		87.2	110		
Matrix: WATER	[Method Blank (ME	3) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	со <i>vөгу</i> (%)	Recover	ry Limits(%)	imits(%) RPD (%)	
					Concentration						
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations - Filtered (QC Lot: 4	4737641)										Limit



Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: SOIL	rix: SOIL				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
				Spike	Spike Re	ecovery (%)	Recovery	Limits (%)	RPD	0 (%)
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and	Major Cations (QC Lot: 4737681)									
HK2247360-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	103		75.0	125		
Matrix: WATER					Matrix Spi	ike (MS) and Matrix	Spike Duplica	ate (MSD) Re	eport	
Matrix: WATER				Spike		ike (MS) and Matrix acovery (%)	C Spike Duplica Recovery	, ,	eport RPD	9 (%)
Matrix: WATER	Sample ID	Method: Compound	CAS Number	Spike Concentration		. ,		, ,		0 (%) Control
	Sample ID	Method: Compound	CAS Number	-	Spike Re	ecovery (%)	Recovery	Limits (%)	RPD	
Laboratory sample ID	<i>Sample ID</i> Major Cations - Filtered (QC Lot: 473764		CAS Number	-	Spike Re	ecovery (%)	Recovery	Limits (%)	RPD	Control

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ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact Address	 CESAR, KA HO WONG 20/F, ONE ISLAND SOUTH, 2 HEUNG YIP ROAD, WONG CHUK HANG, HONG KONG HONG KONG 	Contact Address	 Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong 	Work Order	: HK2247659
E-mail Telephone Facsimile Project	 CesarWong.si@tysan.com +852 2511 9826 CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION V 	E-mail Telephone Facsimile	: richard.fung@alsglobal.com : +852 2610 1044 : +852 2610 2021 NN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 30-Nov-2022
Order number	NODE : J2202SF06	Quote number	: HKE/1455/2022	Issue Date	: 09-Dec-2022
	: B101230 : SAN TIN / LOK MA CHAU			No. of samples received No. of samples analysed	: 4 : 4

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Signatories	Position	Authorised results for
An Ang		
Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

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General Comments

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 30-Nov-2022 to 08-Dec-2022.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2247659

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.

Sample(s) as received, digested by in-house method E-ASTM D3974-09 prior to determination of metals. The in-house method is developed based on ASTM D3974-09 method.



Analytical Results

Sub-Matrix: SOIL			Sample ID	EDH01 (30.00m)	EDH08 (0.50m)	EDH08 (1.50m)	EDH08 (3.00m)	
		Samplir	ng date / time	30-Nov-2022 10:25	30-Nov-2022 13:15	30-Nov-2022 14:45	30-Nov-2022 15:40	
Compound	CAS Number	LOR	Unit	HK2247659-001	HK2247659-002	HK2247659-003	HK2247659-004	
EA/ED: Physical and Aggregate Properties					·	·	<u>.</u>	
EA055: Moisture Content (dried @ 103°C)		0.1	%	12.8	13.2	17.1	19.2	
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	1	47	64	64	



Laboratory Duplicate (DUP) Report

Matrix: SOIL			Laboratory Duplicate (DUP) Report						
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)	
sample ID							Result		
EA/ED: Physical and Ag	gregate Properties (QC Lot: 475	2047)							
HK2246299-021	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	48.5	47.8	1.4	
HK2247659-004	EDH08 (3.00m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	19.2	19.2	0.0	
EG: Metals and Major C	G: Metals and Major Cations (QC Lot: 4743444)								
HK2247659-002	EDH08 (0.50m)	EG020: Arsenic	7440-38-2	1	mg/kg	47	51	8.3	

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 4743444)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	108		87.2	110		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: SOIL					Matrix Spi	ke (MS) and Matrix	Spike Duplica	ate (MSD) Re	eport	
				Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPD	(%)
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 4743444)										
HK2247659-001	EDH01 (30.00m)	EG020: Arsenic	7440-38-2	10 mg/kg	90.7		75.0	125		

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ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Client Laboratory Page : HK2251810 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 . Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT Date Samples Received : 30-Dec-2022 Project NODE : J2202SF06 : HKE/1455/2022 : 11-Jan-2023 Order number Quote Issue Date number C-O-C number : B101236 No. of samples received : 5 : SAN TIN / LOK MA CHAU : 5 No. of samples analysed Site

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Signatories	Position	Authorised results for
Cha An		
Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

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General Comments

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 30-Dec-2022 to 09-Jan-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2251810

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.

Sample(s) as received, digested by in-house method E-ASTM D3974-09 prior to determination of metals. The in-house method is developed based on ASTM D3974-09 method.



Analytical Results

Sub-Matrix: SOIL			Sample ID	EDH02	EDH02	EDH02	EDH02	EDH02
				(0.50m)	(1.50m)	(3.00m)	(6.00m)	(10.00m)
	Sampling date / time			30-Dec-2022 09:15	30-Dec-2022 09:45	30-Dec-2022 11:30	30-Dec-2022 13:45	30-Dec-2022 16:00
Compound	CAS Number	LOR	Unit	HK2251810-001	HK2251810-002	HK2251810-003	HK2251810-004	HK2251810-005
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	16.5	20.0	16.2	20.8	17.5
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	339	345	73	18	2



Matrix: SOIL				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Aggregate Properties (QC Lot: 4800212)											
HK2251156-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	14.9	15.4	3.6			
HK2251255-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	52.5	52.3	0.5			
EG: Metals and Major Cations (QC Lot: 4798811)											
HK2251810-002	EDH02 (1.50m)	EG020: Arsenic	7440-38-2	1	mg/kg	345	306	12.1			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Re	соvегу (%)	Recove	ory Limits(%)	RF	D (%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 4798811)	EG: Metals and Major Cations (QC Lot: 4798811)										
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	96.4		87.2	110		

Matrix: SOIL			Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report								
					Spike Recovery (%)		Recovery Limits (%)		RPD (%)		
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control	
sample ID										Limit	
EG: Metals and I	EG: Metals and Major Cations (QC Lot: 4798811)										
HK2251810-001	EDH02 (0.50m)	EG020: Arsenic	7440-38-2	10 mg/kg	# Not		75.0	125			
					Determined						

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CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Client Laboratory Page : HK2251831 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 . Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT Date Samples Received : 31-Dec-2022 Project NODE : J2202SF06 : HKE/1455/2022 : 11-Jan-2023 Order number Quote Issue Date number C-O-C number : B101239 No. of samples received : 1 : SAN TIN / LOK MA CHAU : 1 No. of samples analysed Site

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Signatories	Position	Authorised results for
Cha Aliz		
Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

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Testing period is from 31-Dec-2022 to 09-Jan-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2251831

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL	Ib-Matrix: SOIL Sample ID				 	
		Samplii	ng date / time	31-Dec-2022 09:15	 	
Compound	CAS Number	LOR	Unit	HK2251831-001	 	
EA/ED: Physical and Aggregate Properties						
EA055: Moisture Content (dried @ 103°C)		0.1	%	12.3	 	
EG: Metals and Major Cations						
EG020: Arsenic	7440-38-2	1	mg/kg	1	 	



Matrix: SOIL				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Aggregate Properties (QC Lot: 4800212)											
HK2251156-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	14.9	15.4	3.6			
HK2251255-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	52.5	52.3	0.5			
EG: Metals and Major Cations (QC Lot: 4798811)											
HK2251810-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	345	306	12.1			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Re	соvегу (%)	Recove	ory Limits(%)	RF	D (%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 4798811)	EG: Metals and Major Cations (QC Lot: 4798811)										
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	96.4		87.2	110		

Matrix: SOIL			Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
					Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and I	Major Cations (QC Lot: 4798811)									
HK2251810-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	# Not		75.0	125		
					Determined					

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ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Client Laboratory Page : HK2300146 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 . Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT Date Samples Received : 03-Jan-2023 Project NODE : J2202SF06 : HKE/1455/2022 : 12-Jan-2023 Order number Quote Issue Date number C-O-C number : B100463 No. of samples received : 1 : SAN TIN / LOK MA CHAU : 1 No. of samples analysed Site

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Signatories	Position	Authorised results for
Cha Ang		
Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

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Testing period is from 03-Jan-2023 to 11-Jan-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2300146

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL											
		Samplii	ng date / time	03-Jan-2023 15:30							
Compound	CAS Number	LOR	Unit	HK2300146-001							
EA/ED: Physical and Aggregate Properties											
EA055: Moisture Content (dried @ 103°C)		0.1	%	9.4							
EG: Metals and Major Cations	EG: Metals and Major Cations										
EG020: Arsenic	7440-38-2	1	mg/kg	4							



Matrix: SOIL				Laboratory Duplicate (DUP) Report						
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)		
sample ID							Result			
EA/ED: Physical and Aggregate Properties (QC Lot: 4803574)										
HK2251678-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	21.6	21.3	1.3		
HK2300145-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	6.9	7.1	2.5		
EG: Metals and Major Cations (QC Lot: 4803670)										
HK2300145-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	82	99	18.9		

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Re	соvелу (%)	Recove	ry Limits(%)	RP	D (%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 4803670)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	96.7		87.2	110		

Matrix: SOIL					Matrix Spil	ke (MS) and Matrix	Spike Duplica	ate (MSD) Re	eport	
				Spike	Spike Re	со <i>vе</i> лу (%)	Recovery l	. <i>imits</i> (%)	RPD	(%)
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and M	Major Cations (QC Lot: 4803670)									
HK2300145-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	# Not		75.0	125		
					Determined					

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CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Client Laboratory Page : HK2301814 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 . Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT Date Samples Received : 11-Jan-2023 Project NODE : J2202SF06 : HKE/1455/2022 : 20-Jan-2023 Order number Quote Issue Date number C-O-C number : B100465 No. of samples received :4 : SAN TIN / LOK MA CHAU :4 No. of samples analysed Site

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Signatories	Position	Authorised results for
Cha An		
Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 11-Jan-2023 to 18-Jan-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2301814

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	EDH03	EDH03	EDH03	EDH03	
				(0.50m)	(1.50m)	(3.00m)	(6.00m)	
		Samplir	ng date / time	11-Jan-2023 09:45	11-Jan-2023 11:00	11-Jan-2023 14:30	11-Jan-2023 15:50	
Compound	CAS Number	LOR	Unit	HK2301814-001	HK2301814-002	HK2301814-003	HK2301814-004	
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	19.8	30.6	28.2	20.0	
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	104	59	43	30	



Matrix: SOIL			Laboratory Duplicate (DUP) Report						
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)	
sample ID							Result		
EA/ED: Physical and Agg	regate Properties (QC Lot: 48135	00)			-				
HK2301278-003	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	46.2	46.6	0.7	
HK2302027-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	24.4	24.7	1.0	
EG: Metals and Major Cat	tions (QC Lot: 4811478)								
HK2301814-002	EDH03 (1.50m)	EG020: Arsenic	7440-38-2	1	mg/kg	59	59	0.0	

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
					Spike Concentration	Spike Red	соvегу (%)	Recove	ry Limits(%)	RP	D (%)	
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control	
											Limit	
EG: Metals and Major Cations (QC Lot: 4811478)												
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	105		87.2	110			

Matrix: SOIL					Matrix Spi	ke (MS) and Matrix	Spike Duplica	ate (MSD) Re	port	
				Spike	Spike Re	acovery (%)	Recovery	Limits (%)	RPD	(%)
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and I	Major Cations (QC Lot: 4811478)									
HK2301814-001	EDH03 (0.50m)	EG020: Arsenic	7440-38-2	10 mg/kg	# Not		75.0	125		
					Determined					

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CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Client Laboratory Page : HK2302048 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 . Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT Date Samples Received : 12-Jan-2023 Project NODE : J2202SF06 : HKE/1455/2022 : 26-Jan-2023 Order number Quote Issue Date number C-O-C number : B100466 : 3 No. of samples received : SAN TIN / LOK MA CHAU : 3 No. of samples analysed Site This report may not be reproduced except with prior written approval from This document has been signed by those names that appear on this report and are the authorised signatories

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Signatories	Position	Authorised results for
Mole		
Leung Chak Cheong , Mike	Assistant Manager - Metals	Metals_ENV, Kwai Tsing
∕∕~` [⊥]		
Lin Wai Yu , Iris	Assistant Manager - Inorganics	Inorganics, Kwai Tsing

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 12-Jan-2023 to 26-Jan-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2302048

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	EDH03 (10.00m)	EDH03 (15.00m)	EDH03 (20.00m)	
		Samplii	ng date / time	12-Jan-2023 10:15	12-Jan-2023 13:45	12-Jan-2023 15:45	
Compound	CAS Number	LOR	Unit	HK2302048-001	HK2302048-002	HK2302048-003	
EA/ED: Physical and Aggregate Properties							
EA055: Moisture Content (dried @ 103°C)		0.1	%	24.5	27.1	30.7	
EG: Metals and Major Cations							
EG020: Arsenic	7440-38-2	1	mg/kg	161	15	1140	



Matrix: SOIL					Labora	atory Duplicate (DUP)	Report	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Age	gregate Properties (QC Lot: 48178	90)						
HK2302048-001	EDH03 (10.00m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	24.5	24.5	0.0
EG: Metals and Major Ca	ations (QC Lot: 4816383)							
HK2301706-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	5	5	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report				DCS) Report					
					Spike Concentration	Spike Re	со vелу (%)	Recove	ry Limits(%)	RP	D (%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 4816383)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	105		87.2	110		

Matrix: SOIL					Matrix Spi	ke (MS) and Matrix	Spike Duplic	ate (MSD) Re	port	
				Spike	Spike Re	асоvөгу (%)	Recovery	Limits (%)	RPD	(%)
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and M	Major Cations (QC Lot: 4816383)									
HK2301706-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	105		75.0	125		

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CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Client Laboratory Page : HK2302279 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 . Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT Date Samples Received : 13-Jan-2023 Project NODE : J2202SF06 : HKE/1455/2022 : 27-Jan-2023 Order number Quote Issue Date number C-O-C number : B100467 : 2 No. of samples received : SAN TIN / LOK MA CHAU : 2 No. of samples analysed Site

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Signatories	Position	Authorised results for
Ma Any		
Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
Mile		
Leung Chak Cheong , Mike	Assistant Manager - Metals	Metals_ENV, Kwai Tsing

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Testing period is from 13-Jan-2023 to 20-Jan-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2302279

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	EDH03 (25.00m)	EDH03 (30.00m)	 	
		Samplii	ng date / time	13-Jan-2023 10:15	13-Jan-2023 13:30	 	
Compound	CAS Number	LOR	Unit	HK2302279-001	HK2302279-002	 	
EA/ED: Physical and Aggregate Properties							
EA055: Moisture Content (dried @ 103°C)		0.1	%	22.4	28.5	 	
EG: Metals and Major Cations	·				-	-	
EG020: Arsenic	7440-38-2	1	mg/kg	1090	946	 	



Matrix: SOIL				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Ag	gregate Properties (QC Lot: 48211	26)			-						
HK2301641-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	55.5	55.4	0.0			
HK2301830-005	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	48.9	49.4	1.1			
EG: Metals and Major C	ations (QC Lot: 4816383)										
HK2301706-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	5	5	0.0			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Re	со vегу (%)	Recove	ry Limits(%)	RP	D (%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 4816383)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	105		87.2	110		

Matrix: SOIL					Matrix Spi	ike (MS) and Matrix	Spike Duplica	ate (MSD) Re	əport	
				Spike	Spike Re	acovery (%)	Recovery	Limits (%)	RPD	(%)
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit
EG: Metals and M	Major Cations (QC Lot: 4816383)									
HK2301706-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	105		75.0	125		

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ANALYICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact Address	 CESAR, KA HO WONG ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU PUI WAN STREET, FO TAN, HONG KONG 	Contact Address	 Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong 	Work Order	: HK2233830
E-mail Telephone Facsimile	: CesarWong.si@tysan.com : : +852 2511 9826	E-mail Telephone Facsimile	 richard.fung@alsglobal.com +852 2610 1044 +852 2610 2021 		
Project	: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION NODE	WORKS FOR S	AN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 26-Aug-2022
Order number	: J2202SF06	Quote number	: HKE/1455/2022	Issue Date	: 06-Sep-2022
C-O-C number	: B 101224			No. of samples received	: 4
Site	: SAN TIN / LOK MA CHAU			No. of samples analysed	: 4

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	V		
laboratory activities as listed in the HOKLAS Directory of Accredited Laboratories.	Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
	/ 5		
	Lin Wai Yu , Iris	Assistant Manager - Inorganics	Inorganics, Kwai Tsing
	1/2 th		
	Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing
	ichem (HK) Pty Ltd		
	Laboratory Group		
	e, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Fax: +852 2610 2021 www.alsglobal.com		



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Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2233830

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	EDH04	EDH04	EDH04	EDH04	
				(0.5m)	(1.5m)	(3.0m)	(6.0m)	
		Samplin	ng date / time	26-Aug-2022 15:00	26-Aug-2022 15:30	26-Aug-2022 16:00	26-Aug-2022 16:15	
Compound	CAS Number	LOR	Unit	HK2233830-001	HK2233830-002	HK2233830-003	HK2233830-004	
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	8.1	16.6	14.8	14.7	
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	5	121	57	70	



Matrix: SOIL				Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Sample ID	Method: Compound	LOR	Unit	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and A	ggregate Properties (QC Lot:	: 4548704)								
HK2233165-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	24.0	24.1	0.6		
HK2233411-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	22.5	22.1	2.1		
EA/ED: Physical and A	ggregate Properties (QC Lot:	: 4548705)								
HK2233830-003	EDH04 (3.0m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	14.8	15.4	3.6		
HK2233898-003	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	27.7	28.0	1.0		
EG: Metals and Major (Cations (QC Lot: 4552644)									
HK2233145-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	8	7	0.0		

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 4552644)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	100		87.2	110		

Matrix: SOIL			_		Matrix Spil	ike (MS) and Matrix	x Spike Duplic	ate (MSD) Re	port	
				Spike	Spike Re	асоvегу (%)	Recovery	Limits (%)	RPD	⁾ (%)
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit
EG: Metals and	Major Cations (QC Lot: 4552644)						1			
HK2233145-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	105		75.0	125		

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ANALYICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact Address	 CESAR, KA HO WONG ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU PUI WAN STREET, FO TAN, HONG KONG 	Contact Address	 Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong 	Work Order	: HK2233896
Telephone	: CesarWong.si@tysan.com : : +852 2511 9826	E-mail Telephone Facsimile	: richard.fung@alsglobal.com : +852 2610 1044 : +852 2610 2021		
Project	CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION NODE	WORKS FOR SA	N TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 27-Aug-2022
Order number	: J2202SF06	Quote number	: HKE/1455/2022	Issue Date	: 05-Sep-2022
C-O-C number	: B101226			No. of samples received	: 1
Site	SAN TIN / LOK MA CHAU			No. of samples analysed	: 1

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	0 ,		6
Signatories		Position	Authorised results for
Ma Ain			
Chan Siu Ming , Vico		Manager - Inorganics	Inorganics, Kwai Tsing
1/2 th			
Wong Wing, Kenneth		Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

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Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2233896

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	EDH04 (10.0m)	 	
		Samplii	ng date / time	27-Aug-2022 10:00	 	
Compound	CAS Number	LOR	Unit	HK2233896-001	 	
EA/ED: Physical and Aggregate Properties						
EA055: Moisture Content (dried @ 103°C)		0.1	%	5.6	 	
EG: Metals and Major Cations						
EG020: Arsenic	7440-38-2	1	mg/kg	1	 	



Matrix: SOIL			Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)		
sample ID							Result			
EA/ED: Physical and Ag	gregate Properties (QC Lot: 45487	705)			-					
HK2233830-003	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	14.8	15.4	3.6		
HK2233898-003	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	27.7	28.0	1.0		
EG: Metals and Major C	ations (QC Lot: 4552644)									
HK2233145-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	8	7	0.0		

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Spike Recov		Recovery (%) Recovery Limits		ny Limits(%)	6) RPD (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 4552644)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	100		87.2	110		

Matrix: SOIL				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
				Spike	Spike R	ecovery (%)	Recovery	Limits (%)	RPL	0 (%)	
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control	
sample ID										Limit	
EG: Metals and	Major Cations (QC Lot: 4552644)										
HK2233145-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	105		75.0	125			

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CERTIFICATE OF ANALYSIS

Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact Address	 CESAR, KA HO WONG ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU PUI WAN STREET, FO TAN, HONG KONG 	Contact Address	 Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong 	Work Order	: HK2234038
E-mail Telephone Facsimile	: CesarWong.si@tysan.com : : +852 2511 9826	E-mail Telephone Facsimile	 richard.fung@alsglobal.com +852 2610 1044 +852 2610 2021 		
Project	: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION NODE	WORKS FOR SA	AN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 29-Aug-2022
Order number	: J2202SF06	Quote number	: HKE/1455/2022	Issue Date	: 07-Sep-2022
C-O-C number	: B 101227			No. of samples received	: 4
Site	: SAN TIN / LOK MA CHAU			No. of samples analysed	: 4

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	Signatories	Position	Authorised results for
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laboratory activities as listed in the HOKLAS Directory of Accredited Laboratories.	Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
abbratory activities as listed in the HORLAS Directory of Acciented Laboratories.		Manayer - morganice	norganics, riwar i sing
	Lin Wai Yu , Iris	Assistant Manager - Inorganics	Inorganics, Kwai Tsing
	Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing
	ichem (HK) Pty Ltd Laboratory Group		
11/F., Chung Shun Knitting Centr	e, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Fax: +852 2610 2021 www.alsglobal.com		



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Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2234038

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	EDH04	EDH04	EDH04	EDH04	
				(15.0m)	(20.0m)	(25.0m)	(30.0m)	
		Samplii	ng date / time	29-Aug-2022 09:30	29-Aug-2022 11:00	29-Aug-2022 11:50	29-Aug-2022 14:15	
Compound	CAS Number	LOR	Unit	HK2234038-001	HK2234038-002	HK2234038-003	HK2234038-004	
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	17.2	16.9	17.2	14.2	
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	2	12	8	10	



Matrix: SOIL			Laboratory Duplicate (DUP) Report						
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)	
sample ID							Result		
EA/ED: Physical and Ac	gregate Properties (QC Lot: 45	51228)				-			
HK2234154-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	17.2	17.2	0.0	
HK2234038-003	EDH04 (25.0m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	17.2	16.9	2.0	
EG: Metals and Major C	ations (QC Lot: 4552644)								
HK2233145-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	8	7	0.0	

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Spike Reco		e Recovery (%) Recovery Lin		ry Limits(%)	its(%) RPD (%)	
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 4552644)								•			•
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	100		87.2	110		

Matrix: SOIL			_		Matrix Spi	ike (MS) and Matri	x Spike Duplic	ate (MSD) Re	port	
				Spike	Spike Re	ecovery (%)	Recovery	Limits (%)	RPL	D (%)
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and	Major Cations (QC Lot: 4552644)									
HK2233145-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	105		75.0	125		

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ANALYICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact Address	CESAR, KA HO WONG ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU PUI WAN STREET, FO TAN, HONG KONG	Contact Address	 Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong 	Work Order	: HK2232309
Telephone	: CesarWong.si@tysan.com : : +852 2511 9826	E-mail Telephone Facsimile	: richard.fung@alsglobal.com : +852 2610 1044 : +852 2610 2021		
Project	CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION NODE	WORKS FOR SA	N TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 16-Aug-2022
Order number	: J2202SF06	Quote number	: HKE/1455/2022	Issue Date	: 25-Aug-2022
C-O-C number	: B101221			No. of samples received	: 3
Site	SAN TIN / LOK MA CHAU			No. of samples analysed	: 3

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Signatories	Position	Authorised results for
An Alin		
Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

ALS Technichem (HK) Pty Ltd Partof the ALS Laboratory Group

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 www.alsglobal.com



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Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2232309

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	EDH05	EDH05	EDH05		
				(0.5m)	(1.5m)	(3.0m)		
	Sampling date / time			16-Aug-2022 11:30	16-Aug-2022 14:00	16-Aug-2022 14:30		
Compound	CAS Number	LOR	Unit	HK2232309-001	HK2232309-002	HK2232309-003		
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	22.6	22.3	20.4		
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	198	178	163		



Matrix: SOIL			Laboratory Duplicate (DUP) Report						
Laboratory	Sample ID	Method: Compound	LOR	Unit	Original Result	Duplicate	RPD (%)		
sample ID							Result		
EA/ED: Physical and Ag	gregate Properties (QC Lot: 45266	-	-						
HK2231868-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	34.1	34.7	1.7	
HK2232312-014	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	67.4	67.2	0.3	
EG: Metals and Major C	ations (QC Lot: 4526713)								
HK2232309-002	EDH05 (1.5m)	EG020: Arsenic	7440-38-2	1	mg/kg	178	169	5.2	

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report									
			Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)			
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 4526713)								•			
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	104		87.2	110		

Matrix: SOIL			Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
			Spike	Spike Spike Rec		Recovery	Limits (%)	RPD (%)		
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and	Major Cations (QC Lot: 4526713)									
HK2232309-001	EDH05 (0.5m)	EG020: Arsenic	7440-38-2	10 mg/kg	# Not		75.0	125		
					Determined					

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CERTIFICATE OF ANALYSIS

Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact Address	CESAR, KA HO WONG ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU PUI WAN STREET, FO TAN, HONG KONG	Contact Address	 Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong 	Work Order	: HK2232545
Telephone	: CesarWong.si@tysan.com : : +852 2511 9826	E-mail Telephone Facsimile	 richard.fung@alsglobal.com +852 2610 1044 +852 2610 2021 		
Project	CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION V	WORKS FOR SA	N TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 17-Aug-2022
Order number	: J2202SF06	Quote number	: HKE/1455/2022	Issue Date	: 26-Aug-2022
C-O-C number	: B 101222			No. of samples received	: 3
Site	SAN TIN / LOK MA CHAU			No. of samples analysed	: 3

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Signatories	Position	Authorised results for
An Alin		
Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

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Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2232545

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	EDH05	EDH05	EDH05	
				(6.0m)	(10.0m)	(15.0m)	
		Samplii	ng date / time	17-Aug-2022 09:30	17-Aug-2022 14:00	17-Aug-2022 15:30	
Compound	CAS Number	LOR	Unit	HK2232545-001	HK2232545-002	HK2232545-003	
EA/ED: Physical and Aggregate Properties							
EA055: Moisture Content (dried @ 103°C)		0.1	%	20.6	19.6	30.8	
EG: Metals and Major Cations							
EG020: Arsenic	7440-38-2	1	mg/kg	196	16	30	



Matrix: SOIL					Laboratory Duplicate (DUP) Report						
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Ag	gregate Properties (QC Lot: 45266	317)									
HK2232361-009	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	28.4	28.3	0.4			
HK2232361-012	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	24.2	24.8	2.2			
EG: Metals and Major C	ations (QC Lot: 4526715)										
HK2231868-001	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	18	20	8.8			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report				DCS) Report	t				
			Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)			
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 4526715)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	102		87.2	110		

Matrix: SOIL			Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
		Spike	ke Spike Recovery (%)		Recovery Limits (%)		RPD (%)			
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and	Major Cations (QC Lot: 4526715)									
HK2231780-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	112		75.0	125		

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CERTIFICATE OF ANALYSIS

Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact Address	 CESAR, KA HO WONG ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU PUI WAN STREET, FO TAN, HONG KONG 	Contact Address	 Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong 	Work Order	: HK2232681
Telephone	 CesarWong.si@tysan.com +852 2511 9826 	E-mail Telephone Facsimile	: richard.fung@alsglobal.com : +852 2610 1044 : +852 2610 2021		
Project	CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION NODE	WORKS FOR SA	N TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 18-Aug-2022
Order number	: J2202SF06	Quote number	: HKE/1455/2022	Issue Date	: 29-Aug-2022
C-O-C number	: B 101223			No. of samples received	: 3
Site	SAN TIN / LOK MA CHAU			No. of samples analysed	: 3

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Position	Authorised results for
Assistant Manager - Inorganics	Inorganics, Kwai Tsing
Assistant Manager - Environmental	Metals_ENV, Kwai Tsing
	Assistant Manager - Inorganics

ALS Technichem (HK) Pty Ltd Partof the ALS Laboratory Group



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Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2232681

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	EDH05	EDH05	EDH05	
				(20.0m)	(25.0m)	(30.0m)	
		Samplii	ng date / time	18-Aug-2022 09:30	18-Aug-2022 11:30	18-Aug-2022 12:30	
Compound	CAS Number	LOR	Unit	HK2232681-001	HK2232681-002	HK2232681-003	
EA/ED: Physical and Aggregate Properties							
EA055: Moisture Content (dried @ 103°C)		0.1	%	20.0	11.1	13.1	
EG: Metals and Major Cations							
EG020: Arsenic	7440-38-2	1	mg/kg	73	20	57	



Matrix: SOIL			Laboratory Duplicate (DUP) Report								
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and Ag	gregate Properties (QC Lot: 452	9453)									
HK2232513-004	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	19.1	18.8	1.3			
EG: Metals and Major C	ations (QC Lot: 4529607)										
HK2232513-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	87	69	23.2			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
				Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)			
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit	
EG: Metals and Major Cations (QC Lot: 4529607)												
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	109		87.2	110			

Matrix: SOIL	Matrix: SOIL				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
				Spike	Spike Re	ecovery (%)	Recovery Limits (%)		RPD (%)			
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control		
sample ID										Limit		
EG: Metals and I	Major Cations (QC Lot: 4529607)											
HK2232513-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	90.3		75.0	125				

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 6 Client Laboratory Page : HK2249394 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 . Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT Date Samples Received : 09-Dec-2022 Project NODE : J2202SF06 : HKE/1455/2022 : 20-Dec-2022 Order number Quote Issue Date number C-O-C number : S100501 : 6 No. of samples received : SAN TIN / LOK MA CHAU : 6 No. of samples analysed Site

Signatories

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Position

An An		
Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

Authorised results for

ALS Technichem (HK) Pty Ltd Part of the ALS Laboratory Group



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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 09-Dec-2022 to 16-Dec-2022.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2249394

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.

Water sample(s) were filtered prior to dissolved metal analysis.



Sub-Matrix: SOIL			Sample ID	EDH06 (0.50m)	EDH06 (0.50m)	EDH06 (1.50m)	EDH06 (3.00m)	EDH06 (6.00m)
					(Duplicate)			
		Samplii	ng date / time	09-Dec-2022 09:00	09-Dec-2022 09:00	09-Dec-2022 11:00	09-Dec-2022 13:30	09-Dec-2022 15:05
Compound	CAS Number	LOR	Unit	HK2249394-002	HK2249394-003	HK2249394-004	HK2249394-005	HK2249394-006
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	13.7	13.6	13.4	18.1	13.5
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	276	251	297	608	8

Page Number	:	4 of 6
Client	:	TYSAN FOUNDATION LTD
Work Order		HK2249394



Sub-Matrix: WATER			Sample ID	Equipment Blank	 	
				Bottle		
		Samplii	ng date / time	09-Dec-2022 08:50	 	
Compound	CAS Number	LOR	Unit	HK2249394-001		
EG: Metals and Major Cations - Filtered						
EG020: Arsenic	7440-38-2	10	µg/L	<10	 	



Matrix: SOIL				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 4770782)									
HK2248360-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	38.6	39.0	1.0			
HK2248514-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	22.3	22.2	0.5			
EG: Metals and Major C	Cations (QC Lot: 4769580)										
HK2248716-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	10	10	0.0			
Matrix: WATER					Labora	atory Duplicate (DUP)	Report				
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EG: Metals and Major C	Cations - Filtered (QC Lot: 4	764805)									
HK2249679-003	Anonymous	EG020: Arsenic	7440-38-2	1	µg/L	<10	<10	0.0			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report				Laboratory Contro	ol Spike (LCS) and Labora	tory Control S	pike Duplicate (DCS) Report	
					Spike	Spike Recovery (%)		Recovery Limits(%)		<i>RPD</i> (%)	
			1	1	Concentration		1				
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 4769580)										
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	103		87.2	110		
Matrix: WATER	Ĩ		Method Blank (ME	B) Report		Laboratory Contro	ol Spike (LCS) and Labora	tory Control S	pike Duplicate (DCS) Report	
					Spike	Spike Rei	covery (%)	Recove	ry Limits(%)	RPL	D (%)
					Concentration						
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
: Metals and Major Cations - Filtered (QC Lot: 4764805)											
EG: Metals and Major Cations - Filtered (QC Lot:	4764805)										



Matrix: SOIL			[Matrix Spi	ke (MS) and Matrix	Spike Duplica	ate (MSD) Re	eport	
				Spike	Spike Re	covery (%)	Recovery I	Limits (%)	RPD	(%)
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and	Major Cations (QC Lot: 4769580)									
HK2248716-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	110		75.0	125		
Matrix: WATER					Matrix Spi	ke (MS) and Matrix	Spike Duplica	ate (MSD) Re	eport	
Matrix: WATER			-	Spike		ke (MS) and Matrix	Spike Duplica Recovery	. ,	eport RPD	9 (%)
Matrix: WATER	Sample ID	Method: Compound	CAS Number	Spike Concentration				. ,		(%) Control
	Sample ID	Method: Compound	CAS Number	-	Spike Re	осоvелу (%)	Recovery	Limits (%)	RPD	
Laboratory sample ID	<i>Sample ID</i> Major Cations - Filtered (QC Lot: 476480		CAS Number	-	Spike Re	осоvелу (%)	Recovery	Limits (%)	RPD	Control

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CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Client Laboratory Page : HK2249515 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 . Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT Date Samples Received : 10-Dec-2022 Project NODE : J2202SF06 : HKE/1455/2022 : 20-Dec-2022 Order number Quote Issue Date number C-O-C number : \$100502 : 2 No. of samples received : SAN TIN / LOK MA CHAU : 2 No. of samples analysed Site

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Signatories	Position	Authorised results for
Cha Ang		
Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 10-Dec-2022 to 16-Dec-2022.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2249515

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	EDH06 (10.0m)	EDH06 (15.0m)	 	
		Samplii	ng date / time	10-Dec-2022 09:00	10-Dec-2022 10:45	 	
Compound	CAS Number	LOR	Unit	HK2249515-001	HK2249515-002	 	
EA/ED: Physical and Aggregate Properties							
EA055: Moisture Content (dried @ 103°C)		0.1	%	18.6	15.1	 	
EG: Metals and Major Cations							
EG020: Arsenic	7440-38-2	1	mg/kg	3	179	 	



Matrix: SOIL			Laboratory Duplicate (DUP) Report							
Laboratory sample ID	Sample ID	Məthod: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)		
EA/ED: Physical and Age	gregate Properties (QC Lot: 47707	33)								
HK2249515-002	EDH06 (15.0m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	15.1	14.8	2.1		
EG: Metals and Major Ca	ations (QC Lot: 4769580)									
HK2248716-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	10	10	0.0		

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL			Method Blank (MB) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
					Spike Concentration	Spike Red	соvелу (%)	Recove	ry Limits(%)	RP	D (%)	
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit	
EG: Metals and Major Cations (QC Lot: 4769580)												
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	103		87.2	110			

Matrix: SOIL	atrix: SOIL			Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report								
				Spike	Spike Re	асо <i>vөгу</i> (%)	Recovery	Limits (%)	RPD)(%)		
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control		
sample ID										Limit		
EG: Metals and M	Major Cations (QC Lot: 4769580)											
HK2248716-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	110		75.0	125				

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ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Client Laboratory Page : HK2249641 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 . Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT Date Samples Received : 12-Dec-2022 Project NODE : J2202SF06 : HKE/1455/2022 : 21-Dec-2022 Order number Quote Issue Date number C-O-C number : B101234 : 3 No. of samples received : SAN TIN / LOK MA CHAU : 3 No. of samples analysed Site

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Signatories	Position	Authorised results for
Lin Wai Yu , Iris	Assistant Manager - Inorganics	Inorganics, Kwai Tsing
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 12-Dec-2022 to 19-Dec-2022.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2249641

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	EDH06	EDH06	EDH06		
				(20.0m)	(25.0m)	(30.0m)		
		Samplii	ng date / time	12-Dec-2022 09:40	12-Dec-2022 10:30	12-Dec-2022 11:30		
Compound	CAS Number	LOR	Unit	HK2249641-001	HK2249641-002	HK2249641-003		
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	17.2	17.7	18.1		
EG: Metals and Major Cations	·				-	-	-	
EG020: Arsenic	7440-38-2	1	mg/kg	77	85	42		



Matrix: SOIL				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Agg	regate Properties (QC Lot: 47728	50)									
HK2248905-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	11.6	11.6	0.0			
HK2249867-004	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	22.6	22.6	0.0			
EG: Metals and Major Ca	tions (QC Lot: 4769580)		-								
HK2248716-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	10	10	0.0			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
				Spike Concentration	Spike Red	со vегу (%)	Recove	ry Limits(%)	RP	D (%)	
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 4769580)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	103		87.2	110		

Matrix: SOIL					Matrix Spi	ate (MSD) Re	Report			
				Spike	Spike Re	acovery (%)	Recovery	Limits (%)	RPD	(%)
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit
EG: Metals and M	Major Cations (QC Lot: 4769580)									
HK2248716-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	110		75.0	125		

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ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 5 Client Laboratory Page : HK2248371 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 . Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT Date Samples Received : 05-Dec-2022 Project NODE : J2202SF06 : HKE/1455/2022 : 14-Dec-2022 Order number Quote Issue Date number C-O-C number : B101233 : 6 No. of samples received : SAN TIN / LOK MA CHAU : 6 No. of samples analysed Site

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Signatories	Position	Authorised results for
An Ain		
Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
temeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

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Testing period is from 05-Dec-2022 to 14-Dec-2022.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2248371

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	EDH07 (0.50m)	EDH07 (1.50m)	EDH07 (3.00m)	EDH07 (6.00m)	EDH07 (10.00m)
		0	and the films			. ,		· · · ·
		Sampili	ng date / time	05-Dec-2022 09:30	05-Dec-2022 10:45	05-Dec-2022 11:25	05-Dec-2022 14:00	05-Dec-2022 14:45
Compound	CAS Number	LOR	Unit	HK2248371-001	HK2248371-002	HK2248371-003	HK2248371-004	HK2248371-005
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	6.0	19.0	18.7	30.0	26.1
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	8	56	39	450	268

Page Number	:	4 of 5
Client	:	TYSAN FOUNDATION LTD
Work Order		HK2248371



Sub-Matrix: SOIL	ub-Matrix: SOIL Sample ID					 	
		Samplir	ng date / time	05-Dec-2022 15:30		 	
Compound	CAS Number	LOR	Unit	HK2248371-006		 	
EA/ED: Physical and Aggregate Properties							
EA055: Moisture Content (dried @ 103°C)		0.1	%	23.0		 	
EG: Metals and Major Cations							
EG020: Arsenic	7440-38-2	1	mg/kg	126		 	



Matrix: SOIL				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Ag	A/ED: Physical and Aggregate Properties (QC Lot: 4761864)										
HK2247662-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	42.3	42.3	0.0			
HK2247665-003	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	36.4	36.3	0.0			
EG: Metals and Major Cations (QC Lot: 4752312)											
HK2248156-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	4	4	0.0			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Re	соvелу (%)	Recove	ry Limits(%)	RP	D (%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 4752312)	EG: Metals and Major Cations (QC Lot: 4752312)										
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	103		87.2	110		

Matrix: SOIL			Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report								
						осоvөгу (%)	Recovery	Limits (%)	RPD	(%)	
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control	
sample ID										Limit	
EG: Metals and M	EG: Metals and Major Cations (QC Lot: 4752312)										
HK2248156-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	95.2		75.0	125			

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ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Client Laboratory Page : HK2248634 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 . Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT Date Samples Received : 06-Dec-2022 Project NODE : J2202SF06 : HKE/1455/2022 : 21-Dec-2022 Order number Quote Issue Date number C-O-C number : B101235 : 3 No. of samples received : SAN TIN / LOK MA CHAU : 3 No. of samples analysed Site

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Signatories	Position	Authorised results for
Cha Ang		
Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 06-Dec-2022 to 15-Dec-2022.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2248634

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	EDH07	EDH07	EDH07						
				(20.0 - 20.50m)	(25.0 - 25.50m)	(30.0 - 30.50m)						
		Samplii	ng date / time	06-Dec-2022 10:00	06-Dec-2022 11:10	06-Dec-2022 15:15						
Compound	CAS Number	LOR	Unit	HK2248634-001	HK2248634-002	HK2248634-003						
EA/ED: Physical and Aggregate Properties												
EA055: Moisture Content (dried @ 103°C)		0.1	%	18.7	17.4	15.2						
EG: Metals and Major Cations	EG: Metals and Major Cations											
EG020: Arsenic	7440-38-2	1	mg/kg	80	332	408						



Matrix: SOIL				Laboratory Duplicate (DUP) Report								
Laboratory	Sample ID	Method: Compound	CAS Number	CAS Number LOR Unit		Original Result	Duplicate	RPD (%)				
sample ID							Result					
A/ED: Physical and Aggregate Properties (QC Lot: 4767709)												
HK2248206-004	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	23.8	23.9	0.0				
HK2249865-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	10.6	10.8	1.5				
EG: Metals and Major Ca	ations (QC Lot: 4752311)											
HK2248206-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	6	6	0.0				
EG: Metals and Major Ca	EG: Metals and Major Cations (QC Lot: 4752312)											
HK2248156-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	4	4	0.0				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Rec	covery (%)	Recove	ry Limits(%)	RPL	D (%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 4752311)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	103		87.2	110		
EG: Metals and Major Cations (QC Lot: 4752312)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	103		87.2	110		

Matrix: SOIL		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report									
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPD (%)		
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control	
sample ID										Limit	
EG: Metals and M	Major Cations (QC Lot: 4752311)										
HK2248206-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	91.7		75.0	125			
EG: Metals and M	EG: Metals and Major Cations (QC Lot: 4752312)										
HK2248156-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	95.2		75.0	125			

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Client Laboratory Page : HK2247873 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 . Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT Date Samples Received : 01-Dec-2022 Project NODE : J2202SF06 : HKE/1455/2022 : 12-Dec-2022 Order number Quote Issue Date number C-O-C number : B101231 : 3 No. of samples received : SAN TIN / LOK MA CHAU : 3 No. of samples analysed Site

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Signatories	Position	Authorised results for
Cha Ang		
Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 01-Dec-2022 to 09-Dec-2022.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2247873

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	EDH08	EDH08	EDH08						
				(6.00m)	(10.00m)	(15.00m)						
		Samplii	ng date / time	01-Dec-2022 09:30	01-Dec-2022 14:00	01-Dec-2022 15:15						
Compound	CAS Number	LOR	Unit	HK2247873-001	HK2247873-002	HK2247873-003						
EA/ED: Physical and Aggregate Properties												
EA055: Moisture Content (dried @ 103°C)		0.1	%	19.7	14.9	12.6						
EG: Metals and Major Cations	EG: Metals and Major Cations											
EG020: Arsenic	7440-38-2	1	mg/kg	180	1060	40						



Matrix: SOIL				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
A/ED: Physical and Aggregate Properties (QC Lot: 4752047)											
HK2246299-021	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	48.5	47.8	1.4			
HK2247659-004	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	19.2	19.2	0.0			
EG: Metals and Major Cations (QC Lot: 4743444)											
HK2247659-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	47	51	8.3			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Re	соvелу (%)	Recove	ry Limits(%)	RP	D (%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 4743444)	EG: Metals and Major Cations (QC Lot: 4743444)										
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	108		87.2	110		

Matrix: SOIL				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
			Spike	Spike Recovery (%)		Recovery Limits (%)		RPD (%)		
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 4743444)										
HK2247659-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	90.7		75.0	125		

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Client Laboratory Page : HK2248074 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 . Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT Date Samples Received : 02-Dec-2022 Project NODE : J2202SF06 : HKE/1455/2022 : 14-Dec-2022 Order number Quote Issue Date number C-O-C number : B101232 : 3 No. of samples received : SAN TIN / LOK MA CHAU : 3 No. of samples analysed Site

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Signatories	Position	Authorised results for
Cha Ang		
Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 02-Dec-2022 to 12-Dec-2022.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2248074

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	EDH08	EDH08	EDH08		
				(20.00m)	(25.00m)	(30.00m)		
		Samplii	ng date / time	02-Dec-2022 09:30	02-Dec-2022 10:45	02-Dec-2022 13:45		
Compound	CAS Number	LOR	Unit	HK2248074-001	HK2248074-002	HK2248074-003		
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	10.6	13.2	14.3		
EG: Metals and Major Cations					-	-	-	
EG020: Arsenic	7440-38-2	1	mg/kg	51	97	42		



Matrix: SOIL				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Agg	regate Properties (QC Lot: 47550	41)									
HK2246498-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	38.1	38.2	0.5			
HK2246498-011	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	27.6	28.4	2.9			
EG: Metals and Major Ca	ions (QC Lot: 4746926)										
HK2247693-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	0.0			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL			Method Blank (MB) Report		DCS) Report					
					Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 4746926)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	104		87.2	110		

Matrix: SOIL					Matrix Sp	ike (MS) and Matrix	Spike Duplica	ate (MSD) Re	eport	
					Spike R	ecovery (%)	Recovery Limits (%)		RPD (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit
EG: Metals and I	Major Cations (QC Lot: 4746926)									
HK2247693-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	102		75.0	125		

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 6 Client Laboratory Page : HK2251832 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 . Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT Date Samples Received : 31-Dec-2022 Project NODE : J2202SF06 : HKE/1455/2022 : 11-Jan-2023 Order number Quote Issue Date number C-O-C number : B101238 No. of samples received : 5 : SAN TIN / LOK MA CHAU : 5 No. of samples analysed Site

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Signatories	Position	Authorised results for
Cha Aliz		
Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 31-Dec-2022 to 09-Jan-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2251832

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.

Water sample(s) were filtered prior to dissolved metal analysis.



Sub-Matrix: SOIL			Sample ID	EDH09	EDH09	EDH09	EDH09	
				(0.5m)	(1.5m)	(1.5m Dup)	(3.0m)	
		Samplir	ng date / time	31-Dec-2022 10:30	31-Dec-2022 10:35	31-Dec-2022 10:35	31-Dec-2022 11:00	
Compound	CAS Number	LOR	Unit	HK2251832-001	HK2251832-002	HK2251832-003	HK2251832-005	
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	16.5	28.4	29.2	27.3	
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	25	12	12	17	

Page Number	:	4 of 6
Client	:	TYSAN FOUNDATION LTD
Work Order		HK2251832



TRALEGIOOL						
Sub-Matrix: WATER			Sample ID	EDH09	 	
				(Equ blank)		
		Samplir	ng date / time	31-Dec-2022 10:45	 	
Compound	CAS Number	LOR	Unit	HK2251832-004	 	
EG: Metals and Major Cations - Filtered						
EG020: Arsenic	7440-38-2	10	µg/L	<10	 	



Matrix: SOIL					Labor	atory Duplicate (DUP)	Report	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and A	ggregate Properties (QC Lot	t: 4800212)						
HK2251156-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	14.9	15.4	3.6
HK2251255-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	52.5	52.3	0.5
EA/ED: Physical and A	ggregate Properties (QC Lot	t: 4800213)						
HK2251832-005	EDH09 (3.0m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	27.3	27.6	1.0
EG: Metals and Major	Cations (QC Lot: 4798811)							
HK2251810-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	345	306	12.1
Matrix: WATER					Labor	atory Duplicate (DUP)	Report	
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)
sample ID							Result	
EG: Metals and Major	Cations - Filtered (QC Lot: 4	798819)						
HK2251812-001	Anonymous	EG020: Arsenic	7440-38-2	1	μg/L	<10	<10	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Г										
	Method Blank (MB) Report					ol Spike (LCS) and Labora	pike Duplicate (i	(DCS) Report		
				Spike	Spike Re	covery (%)	Recovery Limits(%)		RPD (%)	
				Concentration						
CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
										Limit
7440-38-2	1	mg/kg	<1	10 mg/kg	96.4		87.2	110		
		Method Blank (MB	i) Report		Laboratory Contro	ol Spike (LCS) and Labora	tory Control Sj	pike Duplicate (i	DCS) Report	
				Spike	Colko Bo	20V90/(%)	Recove		000	9 (%)
				opino	Эрікө кө	20 1 0 19 (76)	100000	r y Limis (%)	RPL	(/0)
				Concentration	Эріке Кө		100010	ry Limits(76)	RPL	(70)
CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
CAS Number	LOR	Unit	Result							
CAS Number 8819)	LOR	Unit	Result							Control
	CAS Number 7440-38-2		7440-38-2 1 mg/kg		CAS Number LOR Unit Result Concentration 7440-38-2 1 mg/kg <1	CAS Number LOR Unit Result Concentration 7440-38-2 1 mg/kg <1	CAS Number LOR Unit Result Concentration 7440-38-2 1 mg/kg <1	CAS Number LOR Unit Result Concentration LCS DCS Low 7440-38-2 1 mg/kg <1	CAS Number LOR Unit Result Concentration LCS DCS Low High 7440-38-2 1 mg/kg <1	CAS Number LOR Unit Result Concentration LCS DCS Low High Value 7440-38-2 1 mg/kg <1



Matrix: SOIL					Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPD (%)			
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit		
EG: Metals and I	Major Cations (QC Lot: 4798811)											
HK2251810-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	# Not Determined		75.0	125				
Matrix: WATER					Matrix Spi	ike (MS) and Matrix	x Spike Duplic	ate (MSD) Re	eport			
				Spike	Spike Re	асоvелу (%)	Recovery	Limits (%)	RPD	9(%)		
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit		
EG: Metals and	Major Cations - Filtered (QC Lot: 47988	19)										
HK2251811-001	Anonymous	EG020: Arsenic	7440-38-2	50 µg/L	101		75.0	125				

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Client Laboratory Page : HK2300145 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 . Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT Date Samples Received : 03-Jan-2023 Project NODE : J2202SF06 : HKE/1455/2022 : 12-Jan-2023 Order number Quote Issue Date number C-O-C number : B101240 No. of samples received :4 : SAN TIN / LOK MA CHAU :4 No. of samples analysed Site

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Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 03-Jan-2023 to 11-Jan-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2300145

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	EDH09	EDH09	EDH09	EDH09	
				(6.00m)	(10.00m)	(15.00m)	(20.00m)	
		Samplir	ng date / time	03-Jan-2023 10:30	03-Jan-2023 13:45	03-Jan-2023 15:05	03-Jan-2023 16:05	
Compound	CAS Number	LOR	Unit	HK2300145-001	HK2300145-002	HK2300145-003	HK2300145-004	
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	18.3	6.9	13.9	12.7	
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	76	82	20	5	



Matrix: SOIL			Laboratory Duplicate (DUP) Report						
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)	
sample ID							Result		
EA/ED: Physical and Aggr	egate Properties (QC Lot: 480357	74)							
HK2251678-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	21.6	21.3	1.3	
HK2300145-002	EDH09 (10.00m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	6.9	7.1	2.5	
EG: Metals and Major Cat	ons (QC Lot: 4803670)								
HK2300145-002	EDH09 (10.00m)	EG020: Arsenic	7440-38-2	1	mg/kg	82	99	18.9	

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Re	covery (%)	Recove	ory Limits(%)	RF	D (%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 4803670)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	96.7		87.2	110		

Matrix: SOIL		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report								
				Spike	Spike Re	со <i>vөгу</i> (%)	Recovery I	Limits (%)	RPD	(%)
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and I	Major Cations (QC Lot: 4803670)									
HK2300145-001	EDH09 (6.00m)	EG020: Arsenic	7440-38-2	10 mg/kg	# Not		75.0	125		
					Determined					

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Client Laboratory Page : HK2300440 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 . Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT Date Samples Received : 04-Jan-2023 Project NODE : J2202SF06 : HKE/1455/2022 : 12-Jan-2023 Order number Quote Issue Date number C-O-C number : B100464 : 2 No. of samples received : SAN TIN / LOK MA CHAU : 2 No. of samples analysed Site

Signatories

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Position

Cha Ang		
Chan Siu Ming , Vico	Manager - Inorganics	Inorganics, Kwai Tsing
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV, Kwai Tsing

Authorised results for

ALS Technichem (HK) Pty Ltd Part of the ALS Laboratory Group



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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 04-Jan-2023 to 11-Jan-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2300440

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL		Sample ID		EDH09 (25.00m)	EDH09 (30.00m)	 	
		Samplii	ng date / time	04-Jan-2023 10:30	04-Jan-2023 11:45	 	
Compound	CAS Number	LOR	Unit	HK2300440-001	HK2300440-002	 	
EA/ED: Physical and Aggregate Properties							
EA055: Moisture Content (dried @ 103°C)		0.1	%	14.3	14.0	 	
EG: Metals and Major Cations							
EG020: Arsenic	7440-38-2	1	mg/kg	72	129	 	



Matrix: SOIL			Laboratory Duplicate (DUP) Report						
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)	
sample ID							Result		
EA/ED: Physical and Agg	regate Properties (QC Lot: 48035	74)			1	1			
HK2251678-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	21.6	21.3	1.3	
HK2300145-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	6.9	7.1	2.5	
EG: Metals and Major Ca	tions (QC Lot: 4803670)								
HK2300145-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	82	99	18.9	

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 4803670)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	96.7		87.2	110		

Matrix: SOIL		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report								
				Spike	Spike Re	со <i>vе</i> лу (%)	Recovery l	. <i>imits</i> (%)	RPD	(%)
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and M	Major Cations (QC Lot: 4803670)									
HK2300145-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	# Not		75.0	125		
					Determined					

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ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 5 Client Laboratory Page : HK2325099 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 Telephone : -----Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT : 28-Jun-2023 Project Date Samples Received NODE : J2202SF06 : HKE/1455/2022 : 07-Jul-2023 Order number Issue Date Quote number C-O-C number : B102187 No. of samples received : 6 : SAN TIN / LOK MA CHAU : 6 No. of samples analysed Site This report may not be reproduced except with prior written approval from This document has been signed by those names that appear on this report and are the authorised signatories.

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 Signatories
 Position
 Authorised results for

 Image: Chan Siu Ming , Vico
 Assistant Laboratory Manager
 Inorganics

 Image: Mong Wing , Kenneth
 Assistant Manager - Metals
 Metals_ENV

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 28-Jun-2023 to 05-Jul-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2325099

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.



Sub-Matrix: SOIL	Sample ID			AEDH01 (0.50m)	AEDH01 (1.50m)	AEDH01 (3.00m)	AEDH01 (6.00m)	AEDH01 (10.00m)
		Samplii	ng date / time	28-Jun-2023 09:45	28-Jun-2023 10:15	28-Jun-2023 10:50	28-Jun-2023 13:00	28-Jun-2023 14:15
Compound	CAS Number	LOR	Unit	HK2325099-001	HK2325099-002	HK2325099-003	HK2325099-004	HK2325099-005
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	18.9	11.1	11.1	29.7	24.0
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	25	6	20	12	<1

Page Number	:	4 of 5
Client	:	TYSAN FOUNDATION LTD
Work Order		HK2325099



Sub-Matrix: SOIL	Sample ID			AEDH01	 	
				(15.00m)		
		Samplii	ng date / time	28-Jun-2023 14:45	 	
Compound	CAS Number	LOR	Unit	HK2325099-006	 	
EA/ED: Physical and Aggregate Properties						
EA055: Moisture Content (dried @ 103°C)		0.1	%	15.2	 	
EG: Metals and Major Cations						
EG020: Arsenic	7440-38-2	1	mg/kg	1	 	



Matrix: SOIL					Labora	tory Duplicate (DUP)	Report	
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)
sample ID							Result	
EA/ED: Physical and Agg	regate Properties (QC Lot: 515013	32)						
HK2324588-003	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	10.6	10.7	0.0
HK2324762-004	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	9.0	8.8	3.1
EG: Metals and Major Cat	ions (QC Lot: 5144833)							
HK2325099-002	AEDH01 (1.50m)	EG020: Arsenic	7440-38-2	1	mg/kg	6	6	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL			Method Blank (MB) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
					Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)		
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control	
											Limit	
EG: Metals and Major Cations (QC Lot: 5144833)												
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	105		87.2	110			

Matrix: SOIL			Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
Laboratory sample ID	Sample ID	Method: Compound			MS	MSD	Low	High	Value	Control Limit
EG: Metals and M	Major Cations (QC Lot: 5144833)									
HK2325099-001	AEDH01 (0.50m)	EG020: Arsenic	7440-38-2	10 mg/kg	87.6		75.0	125		

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ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client :	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact	 CESAR, KA HO WONG ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU PUI WAN STREET, FO TAN, HONG KONG 	Contact Address	 Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong 	Work Order	: HK2325212
Telephone :	: CesarWong.si@tysan.com : : +852 2511 9826	E-mail Telephone Facsimile	: richard.fung@alsglobal.com : +852 2610 1044 : +852 2610 2021		
Project :	: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION NODE	WORKS FOR S	AN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 29-Jun-2023
Order number :	: J2202SF06	Quote number	: HKE/1455/2022	Issue Date	: 10-Jul-2023
C-O-C number	: B102188			No. of samples received	: 1
Site	: SAN TIN / LOK MA CHAU			No. of samples analysed	:1

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Signatories	Position	Authorised results for
The An		
Chan Siu Ming , Vico	Assistant Laboratory Manager	Inorganics
Kemeth		
Wong Wing, Kenneth	Assistant Manager - Metals	Metals_ENV

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Testing period is from 29-Jun-2023 to 05-Jul-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2325212

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL	Sample ID			AEDH01 (20.00m)	 	
		Samplii	ng date / time	29-Jun-2023 10:45	 	
Compound	CAS Number	LOR	Unit	HK2325212-001	 	
EA/ED: Physical and Aggregate Properties						
EA055: Moisture Content (dried @ 103°C)		0.1	%	14.3	 	
EG: Metals and Major Cations						
EG020: Arsenic	7440-38-2	1	mg/kg	<1	 	



Matrix: SOIL					Labora	atory Duplicate (DUP)	Report	
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)
sample ID							Result	
EA/ED: Physical and Agg	regate Properties (QC Lot: 51501	32)						
HK2324588-003	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	10.6	10.7	0.0
HK2324762-004	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	9.0	8.8	3.1
EG: Metals and Major Cat	tions (QC Lot: 5144833)							
HK2325099-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	6	6	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL			Method Blank (MB) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
				Spike Concentration	Spike Re	соvегу (%)	Recove	ry Limits(%)	RP	D (%)		
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control	
											Limit	
EG: Metals and Major Cations (QC Lot: 5144833)												
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	105		87.2	110			

Matrix: SOIL			Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
Laboratory sample ID	Sample ID	Method: Compound		Concentration	MS	MSD	Low	High	Value	Control Limit
EG: Metals and M	Major Cations (QC Lot: 5144833)									
HK2325099-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	87.6		75.0	125		

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ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 7 Client Laboratory Page : HK2324517 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 Telephone : -----Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT : 23-Jun-2023 Project Date Samples Received NODE : J2202SF06 : HKE/1455/2022 : 04-Jul-2023 Order number Issue Date Quote number C-O-C number : B100480 No. of samples received : 8 : SAN TIN / LOK MA CHAU : 8 No. of samples analysed Site This report may not be reproduced except with prior written approval from This document has been signed by those names that appear on this report and are the authorised signatories.

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Signatories	Position	Authorised results for	
M ⁱ			
Lin Wai Yu , Iris	Assistant Manager - Inorganics	Inorganics	
lemeth			
Wong Wing , Kenneth	Assistant Manager - Metals	Metals_ENV	

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Testing period is from 23-Jun-2023 to 30-Jun-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2324517

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) related only to the item(s) tested.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.

Water sample(s) were filtered prior to dissolved metal analysis.



Sub-Matrix: SOIL	Sample ID			AEDH03	AEDH03	AEDH03	AEDH03	AEDH03
				(0.50m)	(1.50m)	(3.00m)	(6.00m)	(10.00m)
		Samplii	ng date / time	23-Jun-2023 09:30	23-Jun-2023 10:15	23-Jun-2023 10:45	23-Jun-2023 12:00	23-Jun-2023 12:30
Compound	CAS Number	LOR	Unit	HK2324517-001	HK2324517-002	HK2324517-003	HK2324517-004	HK2324517-005
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	19.6	43.9	29.9	17.0	18.3
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	16	86	25	7	15

Page Number: 4 of 7Client: TYSAN FOUNDATION LTDWork OrderHK2324517



Sub-Matrix: SOIL			Sample ID	AEDH03	AEDH03			
				(10.00m) Duplicate	(15.00m)			
		Samplii	ng date / time	23-Jun-2023 12:35	23-Jun-2023 13:45			
Compound	CAS Number	LOR	Unit	HK2324517-006	HK2324517-008			
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	18.6	24.2			
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	16	16			

Page Number	:	5 of 7
Client	:	TYSAN FOUNDATION LTD
Work Order		HK2324517



1112021011							
Sub-Matrix: WATER			Sample ID	AEDH03			
				Equipment Blank			
		Samplir	ng date / time	23-Jun-2023 12:40			
Compound	CAS Number	LOR	Unit	HK2324517-007			
EG: Metals and Major Cations - Filtered							
EG020: Arsenic	7440-38-2	10	µg/L	<10			



Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)	
sample ID							Result		
EA/ED: Physical and A	ggregate Properties (QC Lot:	5133584)							
HK2324456-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	52.9	52.9	0.0	
HK2324517-002	AEDH03 (1.50m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	43.9	43.8	0.0	
EG: Metals and Major	Cations (QC Lot: 5133777)								
HK2324517-002	AEDH03 (1.50m)	EG020: Arsenic	7440-38-2	1	mg/kg	86	90	5.0	
Matrix: WATER					Labora	atory Duplicate (DUP)	Report		
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)	
sample ID							Result		
EG: Metals and Major	Cations - Filtered (QC Lot: 513	3731)							
HK2324572-024	Anonymous	EG020: Arsenic	7440-38-2	1	µg/L	<10	<10	0.0	

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL			Method Blank (ME	3) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
					Spike	Spike Red	covery (%)	Recovery Limits(%)		RPD (%)		
			1	1	Concentration							
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control	
											Limit	
EG: Metals and Major Cations (QC Lot: 5133777)				-								
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	95.7		87.2	110			
Matrix: WATER			Method Blank (ME	3) Report		Laboratory Contro	oratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
					Spike Spike Recovery (%)			Recovery Limits(%)			RPD (%)	
					Concentration							
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control	
											Limit	
EG: Metals and Major Cations - Filtered (QC Lot: 5	5133731)											



Matrix: SOIL				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
			Spil	<i>:</i> 0	Spike Re	со <i>vөгу</i> (%)	Recovery	Limits (%)	RPD	(%)	
Laboratory	Sample ID	Method: Compound	CAS Number Concen	ration	MS	MSD	Low	High	Value	Control	
sample ID										Limit	
EG: Metals and	Major Cations (QC Lot: 5133777)										
HK2324517-001	AEDH03 (0.50m)	EG020: Arsenic	7440-38-2 10 mg	g/kg	118		75.0	125			
Matrix: WATER					Matrix Spi	ke (MS) and Matrix	x Spike Duplic	ate (MSD) Ro	eport		
			Spir	<i>:</i> 0	Spike Re	со <i>vөгу</i> (%)	Recovery	Limits (%)	RPD	(%)	
Laboratory	Sample ID	Method: Compound	CAS Number Concent	ration	MS	MSD	Low	High	Value	Control	
sample ID										Limit	
EG: Metals and	Major Cations - Filtered (QC Lot: 5	5133731)									

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ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Client Laboratory Page : HK2324624 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT : 24-Jun-2023 Project Date Samples Received NODE : J2202SF06 : HKE/1455/2022 : 04-Jul-2023 Order number Issue Date Quote number C-O-C number : B102185 No. of samples received : 2 : SAN TIN / LOK MA CHAU : 2 No. of samples analysed

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Signatories	Position	Authorised results for
Cha Ang		
Chan Siu Ming , Vico	Assistant Laboratory Manager	Inorganics
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Metals	Metals_ENV

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Testing period is from 24-Jun-2023 to 30-Jun-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2324624

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) related only to the item(s) tested.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL					AEDH03 (25.00m)			
	Sampling date / tin				24-Jun-2023 12:00			
Compound	CAS Number	LOR	Unit	HK2324624-001	HK2324624-002			
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	12.2	19.5			
EG: Metals and Major Cations	·				-	-	-	
EG020: Arsenic	7440-38-2	1	mg/kg	7	3			



Matrix: SOIL				Laboratory Duplicate (DUP) Report								
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)				
sample ID							Result					
EA/ED: Physical and Aggregate Properties (QC Lot: 5136280)												
HK2323928-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	39.6	39.4	0.3				
HK2324624-002	AEDH03 (25.00m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	19.5	19.5	0.0				
EG: Metals and Major Cat	EG: Metals and Major Cations (QC Lot: 5133777)											
HK2324517-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	86	90	5.0				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL Method Blank (MB) Re) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
			Spike Concentration	Spike Re	covery (%)	Recove	ry Limits(%)	RP	D (%)		
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 5133777)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	95.7		87.2	110		

Matrix: SOIL		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report										
					Spike Re	со <i>vөгу</i> (%)	Recovery	Limits (%)	RPD	^(%)		
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control		
sample ID										Limit		
EG: Metals and M	EG: Metals and Major Cations (QC Lot: 5133777)											
HK2324517-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	118		75.0	125				

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

Client

Contact

Address

E-mail

Telephone

Facsimile

the testing laboratory.

Project



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Laboratory Page : HK2324726 : CESAR, KA HO WONG : Richard Fung Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail : +852 2610 1044 : -----Telephone : +852 2511 9826 : +852 2610 2021 Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT : 26-Jun-2023 Date Samples Received NODE : J2202SF06 : HKE/1455/2022 : 06-Jul-2023 Order number Issue Date Quote

number C-O-C number : B102186 No. of samples received : 1 : SAN TIN / LOK MA CHAU : 1 No. of samples analysed Site

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Signatories Position Authorised results for Ma Ain Chan Siu Ming, Vico Assistant Laboratory Manager Inorganics Wong Wing, Kenneth Assistant Manager - Metals Metals ENV

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 26-Jun-2023 to 06-Jul-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2324726

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	AEDH03 (30.00m)		 	
	Sampling date / time					 	
Compound	CAS Number	LOR	Unit	HK2324726-001		 	
EA/ED: Physical and Aggregate Properties							
EA055: Moisture Content (dried @ 103°C)		0.1	%	9.8		 	
EG: Metals and Major Cations	·				-	-	
EG020: Arsenic	7440-38-2	1	mg/kg	3		 	



Matrix: SOIL				Laboratory Duplicate (DUP) Report								
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)				
sample ID							Result					
EA/ED: Physical and Aggregate Properties (QC Lot: 5136280)												
HK2323928-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	39.6	39.4	0.3				
HK2324624-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	19.5	19.5	0.0				
EG: Metals and Major Cat	EG: Metals and Major Cations (QC Lot: 5136438)											
HK2324726-001	AEDH03 (30.00m)	EG020: Arsenic	7440-38-2	1	mg/kg	3	4	0.0				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL	Method Blank (MB) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report								
			Spike Concentration	Spike Re	covery (%)	Recove	ry Limits(%)	RP	D (%)		
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 5136438)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	98.0		87.2	110		

Matrix: SOIL		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report									
					Spike Re	covery (%)	Recovery	Limits (%)	RPD	(%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit	
EG: Metals and M	EG: Metals and Major Cations (QC Lot: 5136438)										
HK2324596-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	99.4		75.0	125			

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Client Laboratory Page : HK2320671 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 Telephone : -----Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT : 29-May-2023 Project Date Samples Received NODE : J2202SF06 : HKE/1455/2022 : 09-Jun-2023 Order number Issue Date Quote number C-O-C number : B102183 No. of samples received : 5 : SAN TIN / LOK MA CHAU : 5 No. of samples analysed This report may not be reproduced except with prior written approval from This document has been signed by those names that appear on this report and are the authorised signatories. the testing laboratory.

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Site

Signatories	Position	Authorised results for
∕∕~` [⊥]		
Lin Wai Yu , Iris	Assistant Manager - Inorganics	Inorganics
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 29-May-2023 to 02-Jun-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2320671

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	AEDH10	AEDH10	AEDH10	AEDH10	AEDH10
				(0.50m)	(1.50m)	(3.00m)	(6.00m)	(10.00m)
	Sampling date / time				29-May-2023 10:45	29-May-2023 11:15	29-May-2023 13:30	29-May-2023 14:30
Compound	CAS Number	LOR	Unit	HK2320671-001	HK2320671-002	HK2320671-003	HK2320671-004	HK2320671-005
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	10.8	16.0	16.4	9.9	26.7
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	596	822	946	65	382



Matrix: SOIL				Laboratory Duplicate (DUP) Report								
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)				
sample ID							Result					
EA/ED: Physical and Aggregate Properties (QC Lot: 5081051)												
HK2320671-001	AEDH10 (0.50m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	10.8	10.8	0.0				
HK2320671-003	AEDH10 (3.00m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	16.4	17.2	4.3				
EG: Metals and Major Ca	EG: Metals and Major Cations (QC Lot: 5082135)											
HK2320666-001	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	294	252	15.3				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL Method Blank (MB) Report) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
			Spike Concentration	Spike Re	соvелу (%)	Recove	ry Limits(%)	RP	D (%)			
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control	
											Limit	
EG: Metals and Major Cations (QC Lot: 5082135)	EG: Metals and Major Cations (QC Lot: 5082135)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	105		87.2	110			

Matrix: SOIL		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report								
				Spike	Spike Re	acovery (%)	Recovery	Limits (%)	RPD	(%)
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 5082135)										
HK2320699-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	95.1		75.0	125		

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

: CesarWong.si@tysan.com



: 1 of 4

: HK2320827

: 30-May-2023

: 07-Jun-2023

:4

:4

Date Samples Received

No. of samples received

No. of samples analysed

Issue Date

: TYSAN FOUNDATION LTD Laboratory : ALS Technichem (HK) Pty Ltd Page : CESAR, KA HO WONG Contact : Richard Fung Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU Address : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong

E-mail

Quote number

: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT

Telephone

Facsimile

: richard.fung@alsglobal.com

: +852 2610 1044

: +852 2610 2021

: HKE/1455/2022

Order number : J2202SF06 C-O-C number : B102182

NODE

: +852 2511 9826

: -----

Client

Contact

Address

E-mail

Telephone

Facsimile

Project

Site : SAN TIN / LOK MA CHAU

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Signatories	Position	Authorised results for
The Ari		
Chan Siu Ming , Vico	Assistant Laboratory Manager	Inorganics
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV

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Testing period is from 30-May-2023 to 07-Jun-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2320827

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) related only to the item(s) tested.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	AEDH10 (15.00m)	AEDH10 (20.00m)	AEDH10 (25.00m)	AEDH10 (30.00m)				
		Samplir	ng date / time	30-May-2023 09:15	30-May-2023 11:00	30-May-2023 11:45	30-May-2023 15:15				
Compound	CAS Number	LOR	Unit	HK2320827-001	HK2320827-002	HK2320827-003	HK2320827-004				
EA/ED: Physical and Aggregate Properties											
EA055: Moisture Content (dried @ 103°C)		0.1	%	19.6	16.5	16.1	14.7				
EG: Metals and Major Cations											
EG020: Arsenic	7440-38-2	1	mg/kg	238	336	113	89				



Matrix: SOIL			Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)		
sample ID							Result			
EA/ED: Physical and Aggregate Properties (QC Lot: 5083235)										
HK2320754-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	25.8	26.0	0.5		
HK2319945-003	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	26.1	25.9	0.5		
EG: Metals and Major Cations (QC Lot: 5086223)										
HK2320827-002	AEDH10 (20.00m)	EG020: Arsenic	7440-38-2	1	mg/kg	336	356	5.7		

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
			Spike Concentration	Spike Re	соvегу (%)	Recove	ry Limits(%)	RP	D (%)		
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 5086223)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	89.6		87.2	110		

Matrix: SOIL	atrix: SOIL					Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
				Spike	Spike Re	acovery (%)	Recovery	Limits (%)	RPD	(%)			
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control			
sample ID										Limit			
EG: Metals and M	EG: Metals and Major Cations (QC Lot: 5086223)												
HK2320827-001	AEDH10 (15.00m)	EG020: Arsenic	7440-38-2	10 mg/kg	# Not		75.0	125					
					Determined								

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd Page : 1 of 5 Client Laboratory : HK2320666 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 Telephone : -----Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT : 29-May-2023 Project Date Samples Received NODE : J2202SF06 : HKE/1455/2022 : 09-Jun-2023 Order number Issue Date Quote number C-O-C number : B102181 No. of samples received : 7 : SAN TIN / LOK MA CHAU : 7 No. of samples analysed Site This report may not be reproduced except with prior written approval from This document has been signed by those names that appear on this report and are the authorised signatories. the testing laboratory.

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Testing period is from 29-May-2023 to 02-Jun-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2320666

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL		Sample ID		AEDH11	AEDH11	AEDH11	AEDH11	AEDH11				
				(0.50m)	(1.50m)	(3.00m)	(6.00m)	(10.00m)				
		Samplii	ng date / time	29-May-2023 10:00	29-May-2023 10:15	29-May-2023 10:30	29-May-2023 11:15	29-May-2023 12:00				
Compound	CAS Number	LOR	Unit	HK2320666-001	HK2320666-002	HK2320666-003	HK2320666-004	HK2320666-005				
EA/ED: Physical and Aggregate Properties												
EA055: Moisture Content (dried @ 103°C)		0.1	%	11.5	16.4	21.3	19.5	19.9				
EG: Metals and Major Cations	EG: Metals and Major Cations											
EG020: Arsenic	7440-38-2	1	mg/kg	294	584	20	11	26				

Page Number: 4 of 5Client: TYSAN FOUNDATION LTDWork OrderHK2320666



Sub-Matrix: SOIL			Sample ID	AEDH11	AEDH11	 	
				(15.00m)	(20.00m)		
		Samplii	ng date / time	29-May-2023 14:45	29-May-2023 15:30	 	
Compound	CAS Number	LOR	Unit	HK2320666-006	HK2320666-007		
EA/ED: Physical and Aggregate Properties							
EA055: Moisture Content (dried @ 103°C)		0.1	%	15.4	13.1	 	
EG: Metals and Major Cations							
EG020: Arsenic	7440-38-2	1	mg/kg	77	112	 	



Matrix: SOIL			Laboratory Duplicate (DUP) Report								
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Aggregate Properties (QC Lot: 5081051)											
HK2320671-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	10.8	10.8	0.0			
HK2320671-003	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	16.4	17.2	4.3			
EG: Metals and Major Cations (QC Lot: 5082135)											
HK2320666-001	AEDH11 (0.50m)	EG020: Arsenic	7440-38-2	1	mg/kg	294	252	15.3			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
			Spike Concentration	Spike Re	соvегу (%)	Recove	ry Limits(%)	RP	D (%)		
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 5082135)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	105		87.2	110		

Matrix: SOIL		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report								
				Spike	Spike Re	acovery (%)	Recovery	Limits (%)	RPD	(%)
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 5082135)										
HK2320699-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	95.1		75.0	125		

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

• TYSAN FOUNDATION I TO

Client



 $\cdot 1 \text{ of } 4$

CERTIFICATE OF ANALYSIS Laboratory : ALS Technichem (HK) Pty Ltd Page

Client	. Itsan foundation LTD	Laboratory	ALS TECHNICHEM (HK) Fly Llu	Page	- 1014
Contact	 CESAR, KA HO WONG ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU PUI WAN STREET, FO TAN, HONG KONG 	Contact Address	 Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong 	Work Order	: HK2320828
Telephone	: CesarWong.si@tysan.com : : +852 2511 9826	E-mail Telephone Facsimile	 richard.fung@alsglobal.com +852 2610 1044 +852 2610 2021 		
Project	: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION NODE	WORKS FOR S	AN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 30-May-2023
Order number	: J2202SF06	Quote number	: HKE/1455/2022	Issue Date	: 08-Jun-2023
C-O-C number	: B102184			No. of samples received	: 2
Site	: SAN TIN / LOK MA CHAU			No. of samples analysed	: 2

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Signatories	Position	Authorised results for
Ma Any		
Chan Siu Ming , Vico	Assistant Laboratory Manager	Inorganics
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV

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Testing period is from 30-May-2023 to 08-Jun-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2320828

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) related only to the item(s) tested.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	AEDH11 (25.00m)	AEDH11 (30.00m)	 	
		Samplii	ng date / time	30-May-2023 13:00	30-May-2023 14:45	 	
Compound	CAS Number	LOR	Unit	HK2320828-001	HK2320828-002	 	
EA/ED: Physical and Aggregate Properties							
EA055: Moisture Content (dried @ 103°C)		0.1	%	4.6	12.3	 	
EG: Metals and Major Cations							
EG020: Arsenic	7440-38-2	1	mg/kg	564	183	 	



Matrix: SOIL			Laboratory Duplicate (DUP) Report						
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)	
sample ID							Result		
EA/ED: Physical and Ag	gregate Properties (QC Lot: 5083	235)							
HK2320754-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	25.8	26.0	0.5	
HK2319945-003	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	26.1	25.9	0.5	
EG: Metals and Major C	ations (QC Lot: 5086223)								
HK2320827-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	336	356	5.7	

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
			Spike Concentration	Spike Re	covery (%)	Recove	ry Limits(%)	RP	D (%)		
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 5086223)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	89.6		87.2	110		

Matrix: SOIL	atrix: SOIL					Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
				Spike	Spike Re	acovery (%)	Recovery	Limits (%)	RPD	(%)			
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control			
sample ID										Limit			
EG: Metals and M	Major Cations (QC Lot: 5086223)												
HK2320827-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	# Not		75.0	125					
					Determined								

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact	: CESAR, KA HO WONG	Contact	: Richard Fung	Work Order	: HK2321437
Address	: ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing		
	PUI WAN STREET, FO TAN, HONG KONG		Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: CesarWong.si@tysan.com	E-mail	: richard.fung@alsglobal.com		
Telephone	:	Telephone	: +852 2610 1044		
Facsimile	: +852 2511 9826	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATIO	N WORKS FOR	SAN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 02-Jun-2023
	NODE				
Order number	: J2202SF06	Quote	: HKE/1455/2022	Issue Date	: 12-Jun-2023
		number			
C-O-C number	: B100470			No. of samples received	: 4
Site	: SAN TIN / LOK MA CHAU			No. of samples analysed	: 4
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the testing labo				C	
no tooting labo	Signation Signation	Dries	Position	Authorised results for	

Hong Kong Accreditation Service (HKAS) has accredited this laboratory, ALS Technichem (HK) Pty Ltd (Reg. No. HOKLAS 066) under Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS Directory of Accredited Laboratories.

Signatories	Position	Authorised results for	
Ma Ang			
Chan Siu Ming , Vico	Assistant Laboratory Manager	Inorganics	
Kemeth			
Wong Wing, Kenneth	Assistant Manager - Environmental	Metals_ENV	

ALS Technichem (HK) Pty Ltd Part of the ALS Laboratory Group



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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 02-Jun-2023 to 09-Jun-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2321437

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) related only to the item(s) tested.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	AEDH12 (0.50m)	AEDH12 (1.50m)	AEDH12 (3.00m)	AEDH12	
				(0.5011)	(1.5011)	(3.0011)	(6.00m)	
		Samplir	ng date / time	02-Jun-2023 10:45	02-Jun-2023 11:05	02-Jun-2023 14:30	02-Jun-2023 15:10	
Compound	CAS Number	LOR	Unit	HK2321437-001	HK2321437-002	HK2321437-003	HK2321437-004	
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	12.5	15.4	10.7	16.9	
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	57	70	61	2	



Matrix: SOIL			Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	
EA/ED: Physical and Aggr	egate Properties (QC Lot: 509854	49)							
HK2321437-001	AEDH12 (0.50m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	12.5	12.4	1.2	
EG: Metals and Major Cati	EG: Metals and Major Cations (QC Lot: 5099941)								
HK2321145-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	116	130	11.3	

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
					Spike Concentration	Spike Red	соvелу (%)	Recove	ry Limits(%)	RP	D (%)	
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit	
EG: Metals and Major Cations (QC Lot: 5099941)												
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	104		87.2	110			

Matrix: SOIL	1atrix: SOIL				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
				Spike	Spike Re	со <i>vөгу</i> (%)	Recovery I	Limits (%)	RPD	0 (%)		
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control		
sample ID										Limit		
EG: Metals and M	Major Cations (QC Lot: 5099941)											
HK2321145-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	# Not		75.0	125				
					Determined							

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



Laboratory : ALS Technichem (HK) Pty Ltd P.

Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact Address	 CESAR, KA HO WONG ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU PUI WAN STREET, FO TAN, HONG KONG 	Contact Address	 Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong 	Work Order	: HK2321519
E-mail Telephone Facsimile	: CesarWong.si@tysan.com : : +852 2511 9826	E-mail Telephone Facsimile	: richard.fung@alsglobal.com : +852 2610 1044 : +852 2610 2021		
Project	: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION NODE	WORKS FOR S	SAN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 03-Jun-2023
Order number	: J2202SF06	Quote number	: HKE/1455/2022	Issue Date	: 12-Jun-2023
C-O-C number	: B100471			No. of samples received	: 1
Site	: SAN TIN / LOK MA CHAU			No. of samples analysed	: 1

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 2

 Laboratory Accreditation Scheme (HOKLAS) for specific laboratory
 C

 activities as listed in the HOKLAS Directory of Accredited Laboratories.
 C

Signatories	Position	Authorised results for
Cha Aling		
Chan Siu Ming , Vico	Assistant Laboratory Manager	Inorganics
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV

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Testing period is from 03-Jun-2023 to 09-Jun-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2321519

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL	-Matrix: SOIL Sample ID		AEDH12 (10.00m)					
		Samplii	ng date / time	03-Jun-2023 11:00				
Compound	CAS Number	LOR	Unit	HK2321519-001				
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	21.6				
EG: Metals and Major Cations	·				-	-	-	
EG020: Arsenic	7440-38-2	1	mg/kg	194				



Matrix: SOIL			Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	
EA/ED: Physical and Agg	regate Properties (QC Lot: 509854	49)							
HK2321437-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	12.5	12.4	1.2	
EG: Metals and Major Ca	EG: Metals and Major Cations (QC Lot: 5099941)								
HK2321145-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	116	130	11.3	

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Red	со vелу (%)	Recove	ry Limits(%)	RP	D (%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 5099941)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	104		87.2	110		

Matrix: SOIL					Matrix Spi	ke (MS) and Matrix	Spike Duplic	ate (MSD) Re	port	
				Spike	Spike Re	со <i>vөгу</i> (%)	Recovery	Limits (%)	RPD	(%)
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and M	Major Cations (QC Lot: 5099941)									
HK2321145-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	# Not		75.0	125		
					Determined					

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

Client

Contact

Address

E-mail

Telephone

: -----



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Laboratory Page : HK2321667 : CESAR, KA HO WONG : Richard Fung Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail : +852 2610 1044 Telephone

: +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT : 05-Jun-2023 Project Date Samples Received NODE : J2202SF06 : HKE/1455/2022 : 14-Jun-2023 Order number Issue Date Quote number C-O-C number : B100473 No. of samples received :4 : SAN TIN / LOK MA CHAU :4 No. of samples analysed Site

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Signatories	Position	Authorised results for
Mi-		
Lin Wai Yu , Iris	Assistant Manager - Inorganics	Inorganics
Kemeth		
Wong Wing, Kenneth	Assistant Manager - Environmental	Metals_ENV

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Testing period is from 05-Jun-2023 to 13-Jun-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2321667

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	AEDH12 (15.00m)	AEDH12 (20.00m)	AEDH12 (25.00m)	AEDH12 (30.00m)	
		Samplir	ng date / time	05-Jun-2023 11:00	05-Jun-2023 13:00	05-Jun-2023 14:00	05-Jun-2023 15:15	
Compound	CAS Number	LOR	Unit	HK2321667-001	HK2321667-002	HK2321667-003	HK2321667-004	
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	22.2	19.9	17.7	19.6	
EG: Metals and Major Cations					-			
EG020: Arsenic	7440-38-2	1	mg/kg	238	236	230	215	



Matrix: SOIL			Laboratory Duplicate (DUP) Report						
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)	
sample ID							Result		
EA/ED: Physical and Age	A/ED: Physical and Aggregate Properties (QC Lot: 5105218)								
HK2321391-003	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	48.4	47.4	2.2	
HK2321667-002	AEDH12 (20.00m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	19.9	19.9	0.0	
EG: Metals and Major Ca	EG: Metals and Major Cations (QC Lot: 5096782)								
HK2321361-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	13	12	0.0	

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Re	соvелу (%)	Recove	ry Limits(%)	RP	D (%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 5096782)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	102		87.2	110		

Matrix: SOIL					Matrix Spi	ike (MS) and Matrix	Spike Duplica	ate (MSD) Re	eport	
				Spike	Spike Re	acovery (%)	Recovery	Limits (%)	RPD	(%)
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit
EG: Metals and M	EG: Metals and Major Cations (QC Lot: 5096782)									
HK2321361-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	94.2		75.0	125		

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



		<u>CERTIFIC</u>	ATE OF ANALYSIS		
Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 6
Contact Address	 CESAR, KA HO WONG ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU PUI WAN STREET, FO TAN, HONG KONG 	Contact Address	 Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong 	Work Order	: HK2321145
E-mail Telephone Facsimile	: CesarWong.si@tysan.com : : +852 2511 9826	E-mail Telephone Facsimile	: richard.fung@alsglobal.com : +852 2610 1044 : +852 2610 2021		
Project	: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION NODE	WORKS FOR S	SAN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 01-Jun-2023
Order number	: J2202SF06	Quote number	: HKE/1455/2022	Issue Date	: 12-Jun-2023
C-O-C number	: B100468			No. of samples received	: 6
Site	: SAN TIN / LOK MA CHAU			No. of samples analysed	: 6

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Signatories	Position	Authorised results for
The An		
Chan Siu Ming , Vico	Assistant Laboratory Manager	Inorganics
Lin Wai Yu , Iris	Assistant Manager - Inorganics	Inorganics
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV

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Testing period is from 01-Jun-2023 to 10-Jun-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2321145

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) related only to the item(s) tested.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.

Water sample(s) were filtered prior to dissolved metal analysis.



Sub-Matrix: SOIL			Sample ID	AEDH13	AEDH13	AEDH13	AEDH13	AEDH13
				(0.50m)	(1.50m)	(3.00m)	(1.50m Duplicate)	(6.00m)
		Samplii	ng date / time	01-Jun-2023 14:00	01-Jun-2023 14:20	01-Jun-2023 14:40	01-Jun-2023 14:20	01-Jun-2023 16:00
Compound	CAS Number	LOR	Unit	HK2321145-001	HK2321145-002	HK2321145-003	HK2321145-004	HK2321145-006
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	13.7	21.0	15.3	13.8	11.3
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	53	116	335	48	9

Page Number	:	4 of 6
Client	:	TYSAN FOUNDATION LTD
Work Order		HK2321145



11120211110						
Sub-Matrix: WATER			Sample ID	AEDH13	 	
				(Equipment Blank)		
		Samplir	ng date / time	01-Jun-2023 14:20	 	
Compound	CAS Number	LOR	Unit	HK2321145-005		
EG: Metals and Major Cations - Filtered						
EG020: Arsenic	7440-38-2	10	µg/L	<10	 	



Matrix: SOIL				Laboratory Duplicate (DUP) Report						
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)		
sample ID							Result			
EA/ED: Physical and A	ggregate Properties (QC Lot: 50917	16)								
HK2320080-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	16.7	16.7	0.0		
HK2321145-002	AEDH13 (1.50m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	21.0	20.8	0.6		
EG: Metals and Major C	Cations (QC Lot: 5099941)									
HK2321145-002	AEDH13 (1.50m)	EG020: Arsenic	7440-38-2	1	mg/kg	116	130	11.3		
Matrix: WATER					Labora	atory Duplicate (DUP)	Report			
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)		
sample ID							Result			
EG: Metals and Major C	Cations - Filtered (QC Lot: 5088828)	•								
HK2321145-005	AEDH13 (Equipment Blank)	EG020: Arsenic	7440-38-2	1	µg/L	<10	<10	0.0		

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL			Method Blank (MB	3) Report		Laboratory Contro	ol Spike (LCS) and Labora	tory Control S	pike Duplicate (DCS) Report	
					Spike	Spike Rec	covery (%)	Recover	ry Limits(%)	RPL	7 (%)
					Concentration						
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 5099941)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	104		87.2	110		
Matrix: WATER			Method Blank (MB	3) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	оvегу (%)	Recovery Limits(%)		RPD (%)	
					Concentration						
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations - Filtered (QC Lot: 5	088828)										Limit



Matrix: SOIL					Matrix Spil	ke (MS) and Matrix	Spike Duplic	ate (MSD) Re	eport	
				Spike	Spike Re	covery (%)	Recovery Limits (%)		RPD (%)	
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and	Major Cations (QC Lot: 5099941)									
HK2321145-001	AEDH13 (0.50m)	EG020: Arsenic	7440-38-2	10 mg/kg	# Not		75.0	125		
					Determined					
Matrix: WATER					Matrix Spi	ke (MS) and Matrix	Spike Duplic	ate (MSD) Re	eport	
				Spike	Spike Re	соvөгу (%)	Recovery	Limits (%)	RPD) (%)
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
		20)								
EG: Metals and	Major Cations - Filtered (QC Lot: 50888	28)								

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Client Laboratory Page : HK2321440 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 Telephone : -----Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT : 02-Jun-2023 Project Date Samples Received NODE : J2202SF06 : HKE/1455/2022 : 12-Jun-2023 Order number Issue Date Quote number C-O-C number : B100469 No. of samples received : 2 : SAN TIN / LOK MA CHAU : 2 No. of samples analysed Site This report may not be reproduced except with prior written approval from This document has been signed by those names that appear on this report and are the authorised signatories. the testing laboratory.

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 Signatories
 Position
 Authorised results for

 Da Arg
 Chan Siu Ming , Vico
 Assistant Laboratory Manager
 Inorganics

 Wong Wing , Kenneth
 Assistant Manager - Environmental
 Metals_ENV

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Testing period is from 02-Jun-2023 to 09-Jun-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2321440

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) related only to the item(s) tested.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL	Sample ID			AEDH13 (10.00m)	AEDH13 (15.00m)	 	
	Sampling date / time				02-Jun-2023 11:50	 	
Compound	CAS Number	LOR	Unit	HK2321440-001	HK2321440-002	 	
EA/ED: Physical and Aggregate Properties							
EA055: Moisture Content (dried @ 103°C)		0.1	%	17.0	18.3	 	
EG: Metals and Major Cations						-	
EG020: Arsenic	7440-38-2	1	mg/kg	238	254	 	



Matrix: SOIL				Laboratory Duplicate (DUP) Report							
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and Agg	regate Properties (QC Lot: 509854	49)									
HK2321437-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	12.5	12.4	1.2			
EG: Metals and Major Ca	EG: Metals and Major Cations (QC Lot: 5099941)										
HK2321145-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	116	130	11.3			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Red	соvелу (%)	Recove	ry Limits(%)	RP	D (%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 5099941)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	104		87.2	110		

Matrix: SOIL			Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
				Spike	Spike Re	со <i>vөгу</i> (%)	Recovery I	Limits (%)	RPD) (%)
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and M	Major Cations (QC Lot: 5099941)									
HK2321145-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	# Not		75.0	125		
					Determined					

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Laboratory Page : HK2321663 : CESAR, KA HO WONG : Richard Fung Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail : +852 2610 1044 Telephone : -----Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT : 05-Jun-2023 Date Samples Received NODE : J2202SF06 : HKE/1455/2022 : 14-Jun-2023 Order number Issue Date Quote number C-O-C number : B100472 No. of samples received : 3 : 3 No. of samples analysed

: SAN TIN / LOK MA CHAU Site

Client

Contact

Address

E-mail

Project

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Signatories	Position	Authorised results for
\bigwedge		
Lin Wai Yu , Iris	Assistant Manager - Inorganics	Inorganics
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Environmental	Metals_ENV

ALS Technichem (HK) Pty Ltd Part of the ALS Laboratory Group



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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 05-Jun-2023 to 13-Jun-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2321663

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) related only to the item(s) tested.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	AEDH13 (20.00m)	AEDH13 (25.00m)	AEDH13 (30.00m)	
		Samplii	ng date / time	05-Jun-2023 10:00	05-Jun-2023 11:15	05-Jun-2023 14:15	
Compound	CAS Number	LOR	Unit	HK2321663-001	HK2321663-002	HK2321663-003	
EA/ED: Physical and Aggregate Properties							
EA055: Moisture Content (dried @ 103°C)		0.1	%	17.0	15.7	20.4	
EG: Metals and Major Cations							
EG020: Arsenic	7440-38-2	1	mg/kg	399	175	198	



Matrix: SOIL				Laboratory Duplicate (DUP) Report								
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)				
sample ID							Result					
EA/ED: Physical and Ag	VED: Physical and Aggregate Properties (QC Lot: 5105218)											
HK2321391-003	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	48.4	47.4	2.2				
HK2321667-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	19.9	19.9	0.0				
EG: Metals and Major C	ations (QC Lot: 5096782)		-									
HK2321361-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	13	12	0.0				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)		
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 5096782)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	102		87.2	110		

Matrix: SOIL				Matrix Spi	ike (MS) and Matrix	Spike Duplica	ate (MSD) Re	eport		
			Spike	Spike Re	Recovery (%) Recov		Limits (%)	RPD (%)		
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit
EG: Metals and M	EG: Metals and Major Cations (QC Lot: 5096782)									
HK2321361-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	94.2		75.0	125		

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 6
Contact Address	 CESAR, KA HO WONG ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU 	Contact Address	 Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing 	Work Order	: HK2322623
E-mail Telephone Facsimile	PUI WAN STREET, FO TAN, HONG KONG : CesarWong.si@tysan.com : : +852 2511 9826	E-mail Telephone Facsimile	Yip Street, Kwai Chung, N.T., Hong Kong : richard.fung@alsglobal.com : +852 2610 1044 : +852 2610 2021		
Project	: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION NODE		AN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 09-Jun-2023
Order number	: J2202SF06	Quote number	: HKE/1455/2022	Issue Date	: 21-Jun-2023
C-O-C number	: B100474			No. of samples received	: 6
Site	: SAN TIN / LOK MA CHAU			No. of samples analysed	: 6

the testing laboratory. Hong Kong Accreditation Service (HKAS) has accredited this laboratory, ALS Technichem (HK) Pty Ltd (Reg. No. HOKLAS 066) under Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS Directory of Accredited Laboratories.
 Signatories
 Position
 Authorised results for

 Image: Chan Siu Ming , Vico
 Assistant Laboratory Manager
 Inorganics

 Image: Wong Wing , Kenneth
 Assistant Manager - Metals
 Metals_ENV

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 09-Jun-2023 to 16-Jun-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2322623

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.

Water sample(s) were filtered prior to dissolved metal analysis.



Sub-Matrix: SOIL			Sample ID	AEDH14	AEDH14	AEDH14	AEDH14	AEDH14
				(0.50m)	(1.50m)	(3.00m)	(6.00m)	(6.00m Duplicate)
		Samplii	ng date / time	09-Jun-2023 14:00	09-Jun-2023 14:05	09-Jun-2023 14:35	09-Jun-2023 15:30	09-Jun-2023 15:35
Compound	CAS Number	LOR	Unit	HK2322623-001	HK2322623-002	HK2322623-003	HK2322623-004	HK2322623-005
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	16.1	17.7	19.4	14.0	13.6
EG: Metals and Major Cations					-	-		
EG020: Arsenic	7440-38-2	1	mg/kg	68	148	238	17	14

Page Number	:	4 of 6
Client	:	TYSAN FOUNDATION LTD
Work Order		HK2322623



THEOLEGEO						
Sub-Matrix: WATER			Sample ID	AEDH14	 	
				(Equipment blank)		
		Samplir	ng date / time	09-Jun-2023 15:40	 	
Compound	CAS Number	LOR	Unit	HK2322623-006		
EG: Metals and Major Cations - Filtered						
EG020: Arsenic	7440-38-2	10	µg/L	<10	 	



Matrix: SOIL					Labora	atory Duplicate (DUP)	Report	
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)
sample ID							Result	
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 5109921)						
HK2321871-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	51.3	51.2	0.3
HK2322093-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	23.3	23.0	1.5
EG: Metals and Major (Cations (QC Lot: 5105474)							
HK2322184-001	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	1	1	0.0
Matrix: WATER					Labora	atory Duplicate (DUP)	Report	
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)
sample ID							Result	
EG: Metals and Major (Cations - Filtered (QC Lot: 5	5105462)						
HK2322624-001	Anonymous	EG020: Arsenic	7440-38-2	1	µg/L	<1	<1	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

	-										
Matrix: SOIL		Method Blank (MB) Report				Laboratory Contro	ol Spike (LCS) and Labora	tory Control S	pike Duplicate (DCS) Report	
					Spike	Spike Recovery (%)		Recovery Limits(%)		<i>RPD</i> (%)	
			1	1	Concentration						
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 5105474)				-							
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	103		87.2	110		
Matrix: WATER			Method Blank (MB	3) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	overy (%)	Recover	ry Limits(%)	RPL) (%)
					Concentration						
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations - Filtered (QC Lot: 5	5105462)			·							



Matrix: SOIL				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike	Spike Re	ecovery (%)	Recovery	Limits (%)	RPD	0 (%)
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and	Major Cations (QC Lot: 5105474)									
HK2322180-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	105		75.0	125		
Matrix: WATER					Matrix Spi	ike (MS) and Matrix	Spike Duplica	ate (MSD) Re	eport	
Matrix: WATER				Spike		ike (MS) and Matrix acovery (%)	C Spike Duplica Recovery	, ,	eport RPD	P (%)
Matrix: WATER	Sample ID	Method: Compound	CAS Number	Spike Concentration		. ,		, ,		0 (%) Control
	Sample ID	Method: Compound	CAS Number	-	Spike Re	ecovery (%)	Recovery	Limits (%)	RPD	
Laboratory sample ID	<i>Sample ID</i> Major Cations - Filtered (QC Lot: 510546		CAS Number	-	Spike Re	ecovery (%)	Recovery	Limits (%)	RPD	Control

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CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Client Laboratory Page : HK2322678 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT : 10-Jun-2023 Project Date Samples Received NODE : J2202SF06 : HKE/1455/2022 : 26-Jun-2023 Order number Issue Date Quote number C-O-C number : B100476 No. of samples received : 1 : SAN TIN / LOK MA CHAU : 1 No. of samples analysed Site

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 the testing laboratory.
 Signatories

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 Laboratory Accreditation Scheme (HOKLAS) for specific laboratory
 Chan Siu Ming , Vico

 activities as listed in the HOKLAS Directory of Accredited Laboratories.
 Chan Siu Ming , Vico

Signatories	Position	Authorised results for	
The An			
Chan Siu Ming , Vico	Assistant Laboratory Manager	Inorganics	
Kemeth			
Wong Wing , Kenneth	Assistant Manager - Metals	Metals_ENV	

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Testing period is from 10-Jun-2023 to 21-Jun-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2322678

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) related only to the item(s) tested.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	AEDH14 (10.0m)	 	
		Samplii	ng date / time	10-Jun-2023 10:35	 	
Compound	CAS Number	LOR	Unit	HK2322678-001	 	
EA/ED: Physical and Aggregate Properties						
EA055: Moisture Content (dried @ 103°C)		0.1	%	18.4	 	
EG: Metals and Major Cations						
EG020: Arsenic	7440-38-2	1	mg/kg	17	 	



Matrix: SOIL					Labora	atory Duplicate (DUP)	Report	
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)
sample ID							Result	
EA/ED: Physical and Agg	regate Properties (QC Lot: 51218	05)						
HK2322535-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	46.7	46.0	1.6
HK2322598-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	12.2	12.1	0.0
EG: Metals and Major Ca	tions (QC Lot: 5105430)							
HK2322474-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	2	<2	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL			Method Blank (MB) Report Laboratory Control Spike (LC					ntrol Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report				
				Spike Concentration	Spike Red	соvелу (%)	Recove	ry Limits(%)	RP	D (%)		
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control	
											Limit	
EG: Metals and Major Cations (QC Lot: 5105430)												
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	105		87.2	110			

Matrix: SOIL					Matrix Spi	ike (MS) and Matrix	Spike Duplica	ate (MSD) Re	aport	
				Spike	Spike Re	acovery (%)	Recovery	Limits (%)	RPD	(%)
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit
EG: Metals and M	Major Cations (QC Lot: 5105430)	1						I		
HK2322474-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	104		75.0	125		

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Client Laboratory Page : HK2322770 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 Telephone : -----Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT : 12-Jun-2023 Project Date Samples Received NODE : J2202SF06 : HKE/1455/2022 : 21-Jun-2023 Order number Issue Date Quote number C-O-C number : B100477 No. of samples received :4 : SAN TIN / LOK MA CHAU :4 No. of samples analysed Site This report may not be reproduced except with prior written approval from This document has been signed by those names that appear on this report and are the authorised signatories. the testing laboratory.

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Signatories	Position	Authorised results for	
\bigwedge			
Lin Wai Yu , Iris	Assistant Manager - Inorganics	Inorganics	
Kemeth			
Wong Wing , Kenneth	Assistant Manager - Metals	Metals_ENV	

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Testing period is from 12-Jun-2023 to 21-Jun-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2322770

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	AEDH14 (15.00m)	AEDH14 (20.00m)	AEDH14 (25.00m)	AEDH14 (30.00m)	
		Samplir	ng date / time	12-Jun-2023 09:30	12-Jun-2023 10:15	12-Jun-2023 11:10	12-Jun-2023 13:15	
Compound	CAS Number	LOR	Unit	HK2322770-001	HK2322770-002	HK2322770-003	HK2322770-004	
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	15.9	18.0	20.8	17.7	
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	97	92	195	100	



Matrix: SOIL				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Age	regate Properties (QC Lot: 51128	49)			-						
HK2322140-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	25.9	26.0	0.5			
HK2323193-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	13.9	14.0	0.9			
EG: Metals and Major Ca	tions (QC Lot: 5110021)										
HK2322770-002	AEDH14 (20.00m)	EG020: Arsenic	7440-38-2	1	mg/kg	92	98	6.5			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
				Spike Concentration	Spike Red	соvегу (%)	Recove	ry Limits(%)	RP	D (%)		
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control	
											Limit	
EG: Metals and Major Cations (QC Lot: 5110021)												
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	105		87.2	110			

Matrix: SOIL	ırix: SOIL				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report								
				Spike	Spike Re	со <i>vөгу</i> (%)	Recovery l	Limits (%)	RPD	(%)			
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control			
sample ID										Limit			
EG: Metals and I	Major Cations (QC Lot: 5110021)												
HK2322770-001	AEDH14 (15.00m)	EG020: Arsenic	7440-38-2	10 mg/kg	# Not		75.0	125					
					Determined								

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 5 Client Laboratory Page : HK2323726 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 Telephone Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT : 16-Jun-2023 Project Date Samples Received NODE : J2202SF06 : HKE/1455/2022 : 29-Jun-2023 Order number Issue Date Quote number C-O-C number : B100475 No. of samples received : 6 : SAN TIN / LOK MA CHAU : 6 No. of samples analysed

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Signatories	Position	Authorised results for
Cha Ang		
Chan Siu Ming , Vico	Assistant Laboratory Manager	Inorganics
Kenneth		
Wong Wing, Kenneth	Assistant Manager - Metals	Metals_ENV

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 16-Jun-2023 to 26-Jun-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2323726

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	AEDH23 (0.50m)	AEDH23 (1.50m)	AEDH23 (3.00m)	AEDH23 (6.00m)	AEDH23 (10.00m)
		Sampli	ng date / time	16-Jun-2023 09:30	16-Jun-2023 09:45	16-Jun-2023 10:45	16-Jun-2023 11:40	16-Jun-2023 13:30
		Jampin	ig uale / linie	10-3011-2023 09.30	10-5011-2025 09.45	10-3011-2023 10.43	10-3011-2023 11.40	10-3011-2023 13.30
Compound	CAS Number	LOR	Unit	HK2323726-001	HK2323726-002	HK2323726-003	HK2323726-004	HK2323726-005
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	16.3	15.1	24.9	14.6	16.9
EG: Metals and Major Cations					-			
EG020: Arsenic	7440-38-2	1	mg/kg	92	70	15	10	23

Page Number	:	4 of 5
Client	:	TYSAN FOUNDATION LTD
Work Order		HK2323726



Sub-Matrix: SOIL			Sample ID	AEDH23	 	
				(15.00m)		
		Samplir	ng date / time	16-Jun-2023 14:00	 	
Compound	CAS Number	LOR	Unit	HK2323726-006		
EA/ED: Physical and Aggregate Properties						
EA055: Moisture Content (dried @ 103°C)		0.1	%	16.2	 	
EG: Metals and Major Cations						
EG020: Arsenic	7440-38-2	1	mg/kg	67	 	



Matrix: SOIL			Laboratory Duplicate (DUP) Report						
Laboratory	Sample ID Method: Compound CAS Num			LOR	Unit	Original Result	Duplicate	RPD (%)	
sample ID							Result		
EA/ED: Physical and Agg	regate Properties (QC Lot: 51244	70)							
HK2323012-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	14.0	14.2	0.9	
HK2323290-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	34.0	34.2	0.8	
EG: Metals and Major Ca	tions (QC Lot: 5121825)								
HK2323726-001	AEDH23 (0.50m)	EG020: Arsenic	7440-38-2	1	mg/kg	92	78	15.7	

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL			Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
		Spike Concentration	Spike Re	соvелу (%)	Recove	ry Limits(%)	RP	D (%)				
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control	
											Limit	
EG: Metals and Major Cations (QC Lot: 5121825)												
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	99.3		87.2	110			

Matrix: SOIL				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPD (%)		
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit	
EG: Metals and M	Major Cations (QC Lot: 5121825)										
HK2323397-011	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	106		75.0	125			

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact	: CESAR, KA HO WONG	Contact	: Richard Fung	Work Order	: HK2323839
Address	: ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing		
	PUI WAN STREET, FO TAN, HONG KONG		Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: CesarWong.si@tysan.com	E-mail	: richard.fung@alsglobal.com		
Telephone	:	Telephone	: +852 2610 1044		
Facsimile	: +852 2511 9826	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION	WORKS FOR S	AN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 17-Jun-2023
	NODE				
Order number	: J2202SF06	Quote	: HKE/1455/2022	Issue Date	: 29-Jun-2023
		number			
C-O-C number	: B100478			No. of samples received	: 2
Site	: SAN TIN / LOK MA CHAU			No. of samples analysed	: 2

the testing laboratory. Hong Kong Accreditation Service (HKAS) has accredited this laboratory, ALS Technichem (HK) Pty Ltd (Reg. No. HOKLAS 066) under Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS Directory of Accredited Laboratories.
 Signatories
 Position
 Authorised results for

 Image: Chan Siu Ming , Vico
 Assistant Laboratory Manager
 Inorganics

 Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Ima

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 17-Jun-2023 to 26-Jun-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2323839

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	AEDH23 (20.00m)	AEDH23 (25.00m)	 	
		Samplii	ng date / time	17-Jun-2023 10:15	17-Jun-2023 12:00	 	
Compound	CAS Number	LOR	Unit	HK2323839-001	HK2323839-002	 	
EA/ED: Physical and Aggregate Properties							
EA055: Moisture Content (dried @ 103°C)		0.1	%	11.6	14.4	 	
EG: Metals and Major Cations	·				-	-	
EG020: Arsenic	7440-38-2	1	mg/kg	44	107	 	



Matrix: SOIL			Laboratory Duplicate (DUP) Report							
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)		
EA/ED: Physical and A	ggregate Properties (QC Lot	: 5124470)								
HK2323012-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	14.0	14.2	0.9		
HK2323290-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	34.0	34.2	0.8		
EA/ED: Physical and A	ggregate Properties (QC Lot	: 5124471)								
HK2323914-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	13.2	13.4	1.0		
EG: Metals and Major (Cations (QC Lot: 5121825)									
HK2323726-001	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	92	78	15.7		

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Rec	covery (%)	Recove	ry Limits(%)	RPL	D (%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 5121825)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	99.3		87.2	110		

Matrix: SOIL					Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report								
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPD (%)				
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control			
sample ID										Limit			
EG: Metals and M	EG: Metals and Major Cations (QC Lot: 5121825)												
HK2323397-011	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	106		75.0	125					

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ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : TYSAN FOUNDATION LTD : ALS Technichem (HK) Pty Ltd : 1 of 4 Client Laboratory Page : HK2323914 : CESAR, KA HO WONG : Richard Fung Contact Contact Work Order : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address Address PUI WAN STREET, FO TAN, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong : CesarWong.si@tysan.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 Telephone : -----Telephone : +852 2511 9826 : +852 2610 2021 Facsimile Facsimile : CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION WORKS FOR SAN TIN / LOK MA CHAU DEVELOPMENT : 19-Jun-2023 Project Date Samples Received NODE : J2202SF06 : HKE/1455/2022 : 29-Jun-2023 Order number Issue Date Quote number C-O-C number : B100479 No. of samples received : 1 : SAN TIN / LOK MA CHAU : 1 No. of samples analysed Site This report may not be reproduced except with prior written approval from This document has been signed by those names that appear on this report and are the authorised signatories.

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Signatories	Position	Authorised results for
$\dot{\sim}$		
Lin Wai Yu , Iris	Assistant Manager - Inorganics	Inorganics
lemeth		
Wong Wing , Kenneth	Assistant Manager - Metals	Metals_ENV

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Testing period is from 19-Jun-2023 to 26-Jun-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2323914

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	AEDH23 (30.00m)	 	
		Samplii	ng date / time	19-Jun-2023 10:30	 	
Compound	CAS Number	LOR	Unit	HK2323914-001	 	
EA/ED: Physical and Aggregate Properties						
EA055: Moisture Content (dried @ 103°C)		0.1	%	13.2	 	
EG: Metals and Major Cations						
EG020: Arsenic	7440-38-2	1	mg/kg	33	 	



Matrix: SOIL			Laboratory Duplicate (DUP) Report									
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)				
EA/ED: Physical and Aggregate Properties (QC Lot: 5124471)												
HK2323914-001	AEDH23 (30.00m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	13.2	13.4	1.0				
EG: Metals and Major Cati	EG: Metals and Major Cations (QC Lot: 5121825)											
HK2323726-001	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	92	78	15.7				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL			Method Blank (MB) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Red	соvелу (%)	Recove	ry Limits(%)	RP	D (%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 5121825)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	99.3		87.2	110		

Matrix: SOIL		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report								
					Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and M	Major Cations (QC Lot: 5121825)									
HK2323397-011	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	106		75.0	125		

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 5
Contact Address	 CESAR, KA HO WONG ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU PUI WAN STREET, FO TAN, HONG KONG 	Contact Address	 Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong 	Work Order	: HK2326088
E-mail Telephone Facsimile	: CesarWong.si@tysan.com : : +852 2511 9826	E-mail Telephone Facsimile	: richard.fung@alsglobal.com : +852 2610 1044 : +852 2610 2021		
Project	: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION NODE	WORKS FOR S	AN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 05-Jul-2023
Order number	: J2202SF06	Quote number	: HKE/1455/2022	Issue Date	: 14-Jul-2023
C-O-C number	: B102189			No. of samples received	: 7
Site	: SAN TIN / LOK MA CHAU			No. of samples analysed	: 7

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Signatories	Position	Authorised results for
Cha Ang		
Chan Siu Ming , Vico	Assistant Laboratory Manager	Inorganics
, ∕∼`⊥		
Lin Wai Yu , Iris	Assistant Manager - Inorganics	Inorganics
temeth		
Wong Wing , Kenneth	Assistant Manager - Metals	Metals_ENV

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Testing period is from 05-Jul-2023 to 13-Jul-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2326088

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.



Sub-Matrix: SOIL			Sample ID	AEDH24	AEDH24	AEDH24	AEDH24	AEDH24
				(0.50m)	(1.50m)	(3.00m)	(6.00m)	(10.00m)
		Samplii	ng date / time	05-Jul-2023 10:00	05-Jul-2023 10:15	05-Jul-2023 10:30	05-Jul-2023 10:50	05-Jul-2023 11:50
Compound	CAS Number	LOR	Unit	HK2326088-001	HK2326088-002	HK2326088-003	HK2326088-004	HK2326088-005
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	23.3	20.2	23.4	18.7	12.3
EG: Metals and Major Cations					-			
EG020: Arsenic	7440-38-2	1	mg/kg	17	131	65	194	333

Page Number	:	4 of 5
Client	:	TYSAN FOUNDATION LTD
Work Order		HK2326088



Sub-Matrix: SOIL			Sample ID	AEDH24	AEDH24	 	
				(15.00m)	(20.00m)		
	Sampling date / time					 	
Compound	CAS Number	LOR	Unit	HK2326088-006	HK2326088-007	 	
EA/ED: Physical and Aggregate Properties							
EA055: Moisture Content (dried @ 103°C)		0.1	%	16.3	16.6	 	
EG: Metals and Major Cations				_		-	
EG020: Arsenic	7440-38-2	1	mg/kg	131	19	 	



Matrix: SOIL			Laboratory Duplicate (DUP) Report									
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)				
sample ID							Result					
A/ED: Physical and Aggregate Properties (QC Lot: 5167799)												
HK2326088-002	AEDH24 (1.50m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	20.2	20.1	0.0				
HK2326088-007	AEDH24 (20.00m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	16.6	16.6	0.0				
EG: Metals and Major Cat	EG: Metals and Major Cations (QC Lot: 5155963)											
HK2326088-002	AEDH24 (1.50m)	EG020: Arsenic	7440-38-2	1	mg/kg	131	111	16.5				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL			Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
				Spike Concentration	Spike Re	со vегу (%)	Recove	ry Limits(%)	RP	D (%)		
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control	
											Limit	
EG: Metals and Major Cations (QC Lot: 5155963)												
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	100		87.2	110			

Matrix: SOIL	trix: SOIL				eport					
				Spike	Spike Recovery (%)		Recovery	əry Limits (%)		RPD (%)
Laboratory sample ID	Sample ID Method: Compound		CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit
EG: Metals and M	Major Cations (QC Lot: 5155963)									
HK2326088-001	AEDH24 (0.50m)	EG020: Arsenic	7440-38-2	10 mg/kg	79.9		75.0	125		

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact Address	 CESAR, KA HO WONG ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU 	Contact Address	Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing	Work Order	: HK2326347
	PUI WAN STREET, FO TAN, HONG KONG		Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: CesarWong.si@tysan.com	E-mail	: richard.fung@alsglobal.com		
Telephone Facsimile	: : +852 2511 9826	Telephone Facsimile	: +852 2610 1044 : +852 2610 2021		
Project	: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION		SAN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 06-Jul-2023
	NODE				
Order number	: J2202SF06	Quote	: HKE/1455/2022	Issue Date	: 18-Jul-2023
		number			
C-O-C number	: B102190			No. of samples received	: 2
Site	: SAN TIN / LOK MA CHAU			No. of samples analysed	: 2
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the testing labo	Cignator	ies	Position	Authorised results for	
	creditation Service (HKAS) has accredited this laboratory,	٢			

Laboratory Accreditation Scheme (HOKLAS) for specific laboratory

activities as listed in the HOKLAS Directory of Accredited Laboratories.

 In Wai Yu , Iris
 Assistant Manager - Inorganics
 Inorganics

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 06-Jul-2023 to 18-Jul-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2326347

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.



Sub-Matrix: SOIL			Sample ID	AEDH24 (25.0m)	AEDH24 (30.0m)			
		Samplii	ng date / time	06-Jul-2023 11:00	06-Jul-2023 13:50			
Compound	CAS Number	LOR	Unit	HK2326347-001	HK2326347-002			
EA/ED: Physical and Aggregate Properties					·	•	·	
EA055: Moisture Content (dried @ 103°C)		0.1	%	17.7	14.0			
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	62	23			



Matrix: SOIL				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Agg	regate Properties (QC Lot: 51705	65)									
HK2325898-015	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	20.6	20.8	1.3			
HK2326347-001	AEDH24 (25.0m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	17.7	17.2	2.6			
EG: Metals and Major Ca	tions (QC Lot: 5158737)										
HK2325456-001	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	113	95	18.0			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL			Method Blank (MB) Report		Laboratory Contr	rol Spike (LCS) and Labora	tory Control S	oike Duplicate (i	ke Duplicate (DCS) Report Limits(%) RPD (%) High Value Control Limit				
					Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)				
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control			
											Limit			
EG: Metals and Major Cations (QC Lot: 5158737)														
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	101		87.2	110					

Matrix: SOIL	rix: SOIL				eport					
					Spike Spike Recovery (%)			Recovery Limits (%)		(%)
Laboratory sample ID	Sample ID Method: Compound		CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit
EG: Metals and M	Major Cations (QC Lot: 5158737)									
HK2325454-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	107		75.0	125		

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact Address	 CESAR, KA HO WONG ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU PUI WAN STREET, FO TAN, HONG KONG 	Contact Address	 Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong 	Work Order	: HK2328593
E-mail Telephone Facsimile	: CesarWong.si@tysan.com : : +852 2511 9826	E-mail Telephone Facsimile	: richard.fung@alsglobal.com : +852 2610 1044 : +852 2610 2021		
Project	: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION NODE		AN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 19-Jul-2023
Order number	: J2202SF06	Quote number	: HKE/1455/2022	Issue Date	: 28-Jul-2023
C-O-C number	: B102195			No. of samples received	: 5
Site	: SAN TIN / LOK MA CHAU			No. of samples analysed	: 5

the testing laboratory. Hong Kong Accreditation Service (HKAS) has accredited this laboratory, ALS Technichem (HK) Pty Ltd (Reg. No. HOKLAS 066) under Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS Directory of Accredited Laboratories.

Signatories	Position	Authorised results for
The An		
Chan Siu Ming , Vico	Assistant Laboratory Manager	Inorganics
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Metals	Metals_ENV

ALS Technichem (HK) Pty Ltd Part of the ALS Laboratory Group



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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 19-Jul-2023 to 28-Jul-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2328593

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL			Sample ID	AEDH25	AEDH25	AEDH25	AEDH25	AEDH25
				(0.50m)	(1.50m)	(3.00m)	(6.00m)	(10.00m)
		Samplii	ng date / time	19-Jul-2023 11:30	19-Jul-2023 13:00	19-Jul-2023 14:15	19-Jul-2023 15:05	19-Jul-2023 15:55
Compound	CAS Number	LOR	Unit	HK2328593-001	HK2328593-002	HK2328593-003	HK2328593-004	HK2328593-005
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	17.0	22.4	26.9	26.2	23.9
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	23	10	4	3	2



Matrix: SOIL				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Age	regate Properties (QC Lot: 51951	56)			-						
HK2328212-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	12.6	12.6	0.0			
HK2329389-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	12.4	12.7	2.9			
EG: Metals and Major Ca	tions (QC Lot: 5183959)										
HK2328211-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	10	10	0.0			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL			Method Blank (MB	3) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Spike Recovery (%) Recovery Limits(%) Concentration					RPD (%)		
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control	
											Limit	
EG: Metals and Major Cations (QC Lot: 5183959)												
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	100.0		87.2	110			
EG: Metals and Major Cations (QC Lot: 5183961)												
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	102		87.2	110			

Matrix: SOIL	: SOIL			Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report								
				Spike	Spike Rei	соvегу (%)	Recovery	Recovery Limits (%)		(%)		
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control		
sample ID										Limit		
EG: Metals and M	Major Cations (QC Lot: 5183959)											
HK2328211-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	99.3		75.0	125				
EG: Metals and M	EG: Metals and Major Cations (QC Lot: 5183961)											
HK2328593-005	AEDH25 (10.00m)	EG020: Arsenic	7440-38-2	10 mg/kg	97.2		75.0	125				

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ANALYTICAL CHEMISTRY & TESTING SERVICES

: TYSAN FOUNDATION LTD

Client



: 1 of 6

CERTIFICATE OF ANALYSIS Laboratory : ALS Technichem (HK) Pty Ltd Page Disk and Former Page

Contact Address	 CESAR, KA HO WONG ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU PUI WAN STREET, FO TAN, HONG KONG 	Contact Address	 Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong 	Work Order	: HK2328741
E-mail Telephone Facsimile	: CesarWong.si@tysan.com : : +852 2511 9826	E-mail Telephone Facsimile	: richard.fung@alsglobal.com : +852 2610 1044 : +852 2610 2021		
Project	: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION NODE	WORKS FOR SA	AN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 20-Jul-2023
Order number	: J2202SF06	Quote number	: HKE/1455/2022	Issue Date	: 31-Jul-2023
C-O-C number	: B102196			No. of samples received	: 3
Site	: SAN TIN / LOK MA CHAU			No. of samples analysed	: 3

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the testing laboratory. Hong Kong Accreditation Service (HKAS) has accredited this laboratory, ALS Technichem (HK) Pty Ltd (Reg. No. HOKLAS 066) under Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS Directory of Accredited Laboratories.

Signatories	Position	Authorised results for
Cha Ang		
Chan Siu Ming , Vico	Assistant Laboratory Manager	Inorganics
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Metals	Metals_ENV

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 20-Jul-2023 to 28-Jul-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2328741

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.

Water sample(s) were filtered prior to dissolved metal analysis.



Sub-Matrix: SOIL			Sample ID	AEDH25	AEDH25	 	
				(15.00m)	(15.00m Duplicate)		
		Samplii	ng date / time	20-Jul-2023 10:45	20-Jul-2023 10:50	 	
Compound	CAS Number	LOR	Unit	HK2328741-001	HK2328741-002	 	
EA/ED: Physical and Aggregate Properties							
EA055: Moisture Content (dried @ 103°C)		0.1	%	19.8	20.6	 	
EG: Metals and Major Cations							
EG020: Arsenic	7440-38-2	1	mg/kg	7	7	 	

Page Number	: 4	of 6
Client	: T	SAN FOUNDATION LTD
Work Order	н	<2328741



1112020111						
Sub-Matrix: WATER			Sample ID	AEDH25	 	
				(Equipment Blank)		
		Samplir	ng date / time	20-Jul-2023 10:55	 	
Compound	CAS Number	LOR	Unit	HK2328741-003		
EG: Metals and Major Cations - Filtered						
EG020: Arsenic	7440-38-2	10	µg/L	<10	 	



						,				
Matrix: SOIL				Laboratory Duplicate (DUP) Report						
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)		
sample ID							Result			
EG: Metals and Major	Cations (QC Lot: 5186858)									
HK2328653-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	10	9	0.0		
Matrix: WATER				Laboratory Duplicate (DUP) Report						
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)		
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)		
sample ID	Sample ID Cations - Filtered (QC Lot: 5186		CAS Number	LOR	Unit	Original Result	-	RPD (%)		

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL			Method Blank (ME	3) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	covery (%)	Recove	ry Limits(%)	RPL	7 (%)
					Concentration						
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 5186858)	I Contraction of the second second second second second second second second second second second second second										
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	99.5		87.2	110		
Matrix: WATER			Method Blank (ME	3) Report		Laboratory Contro	ol Spike (LCS) and Labora	tory Control S	pike Duplicate (l	DCS) Report	
			·		Spike		соvелу (%)	Recove	ry Limits(%)	RPL) (%)
					Spike Concentration			Recove) (%)
Method: Compound	CAS Number	LOR	Unit	Result				Recove			Control
	CAS Number	LOR	-	Result		Spike Red	соvелу (%)		ry Limits(%)	RPL	
		LOR	-	Result		Spike Red	соvелу (%)		ry Limits(%)	RPL	Control



Matrix: SOIL					Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
					Spike Recovery (%)		Recovery Limits (%)		RPD (%)			
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control		
sample ID										Limit		
EG: Metals and M	Major Cations (QC Lot: 5186858)											
HK2328653-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	99.4		75.0	125				

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact Address	 CESAR, KA HO WONG ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 PUI WAN STREET, FO TAN, HONG KONG 	Contact AU Address	 Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong 	Work Order	: HK2329042
E-mail Telephone Facsimile	: CesarWong.si@tysan.com : : +852 2511 9826	E-mail Telephone Facsimile	: richard.fung@alsglobal.com : +852 2610 1044 : +852 2610 2021		
Project	: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGA	TION WORKS FOR S	SAN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 21-Jul-2023
Order number	NODE : J2202SF06	Quote number	: HKE/1455/2022	Issue Date	: 03-Aug-2023
C-O-C number	: B102197			No. of samples received	: 2
Site	: SAN TIN / LOK MA CHAU			No. of samples analysed	: 2
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the testing labo Hong Kong Aco	oratory. creditation Service (HKAS) has accredited this laboratory,	natories	Position	Authorised results for	
• •	m (HK) Pty Ltd (Reg. No. HOKLAS 066) under Hong Kong	∕'			
Laboratory Acc	reditation Scheme (HOKLAS) for specific laboratory	Wai Yu , Iris	Assistant Manager - Inorganics	Inorganics	

activities as listed in the HOKLAS Directory of Accredited Laboratories.

Kemeth

Wong Wing , Kenneth

Assistant Manager - Inorganics Inorganics Assistant Manager - Metals Metals_ENV

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 21-Jul-2023 to 29-Jul-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2329042

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.



Sub-Matrix: SOIL			Sample ID	AEDH25	AEDH25	 	
				(20.00m)	(25.00m)		
		Samplii	ng date / time	21-Jul-2023 13:00	21-Jul-2023 15:27	 	
Compound	CAS Number	LOR	Unit	HK2329042-001	HK2329042-002	 	
EA/ED: Physical and Aggregate Properties							
EA055: Moisture Content (dried @ 103°C)		0.1	%	15.8	16.6	 	
EG: Metals and Major Cations				-			
EG020: Arsenic	7440-38-2	1	mg/kg	2	6	 	



Matrix: SOIL			Laboratory Duplicate (DUP) Report							
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)		
EA/ED: Physical and Agg	regate Properties (QC Lot: 519260	03)								
HK2328156-005	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	39.0	38.0	2.6		
EG: Metals and Major Ca	EG: Metals and Major Cations (QC Lot: 5190340)									
HK2328834-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	9	9	0.0		

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Red	covery (%)	Recove	ry Limits(%)	RP	D (%)
Method: Compound CAS Number		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 5190340)	•										
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	101		87.2	110		

Matrix: SOIL					Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPD (%)			
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control		
sample ID										Limit		
EG: Metals and M	EG: Metals and Major Cations (QC Lot: 5190340)											
HK2328834-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	100		75.0	125				

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client Contact	: CESAR, KA HO WONG	Laboratory Contact	: ALS Technichem (HK) Pty Ltd : Richard Fung	Page Work Order	:1 of 6 : HK2326917
Address	: ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-5		: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing		
	PUI WAN STREET, FO TAN, HONG KONG		Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: CesarWong.si@tysan.com	E-mail	: richard.fung@alsglobal.com		
Telephone	:	Telephone	: +852 2610 1044		
Facsimile	: +852 2511 9826	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGA	ATION WORKS FOR	SAN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 08-Jul-2023
	NODE				
Order number	: J2202SF06	Quote	: HKE/1455/2022	Issue Date	: 20-Jul-2023
		number			
C-O-C number	: B102161			No. of samples received	: 4
Site	: SAN TIN / LOK MA CHAU			No. of samples analysed	: 4
This report ma	y not be reproduced except with prior written approval from	his document has be	en signed by those names that appear on this report	and are the authorised sig	natories.
the testing labo	oratory. creditation Service (HKAS) has accredited this laboratory, $\frac{S_{A}}{2}$	ignatories	Position	Authorised results for	
		Mi.			
ALS Technichem (HK) Pty Ltd (Reg. No. HOKLAS 066) under Hong Kong) °			
		n Wai Yu , Iris	Assistant Manager - Inorganics	Inorganics	

Kenneth

Wong Wing , Kenneth

Assistant Manager - Metals

Metals_ENV

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 08-Jul-2023 to 18-Jul-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2326917

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.

Water sample(s) were filtered prior to dissolved metal analysis.



Sub-Matrix: SOIL			Sample ID	AEDH26 (0.50m)	AEDH26 (1.50m)	AEDH26 (1.50m) (Duplicate)	
Sampling date / time			08-Jul-2023 11:00	08-Jul-2023 11:30	08-Jul-2023 11:30	 	
Compound	CAS Number	LOR	Unit	HK2326917-001	HK2326917-002	HK2326917-003	
EA/ED: Physical and Aggregate Properties							
EA055: Moisture Content (dried @ 103°C)		0.1	%	23.9	25.6	24.9	
EG: Metals and Major Cations							
EG020: Arsenic	7440-38-2	1	mg/kg	17	10	8	

ge Number ent ork Order	4 of 6 TYSAN FOUNDATION LTD HK2326917								ALS	
Sub-Matrix: WA	TER			Sample ID	Equipment Blank					
			Sampli	ng date / time	08-Jul-2023 11:15					
Compound		CAS Number	LOR	Unit	HK2326917-004					
EG: Metals and Major Cations - Filtered										
EG020: Arsen	ic	7440-38-2	10	µg/L	<10					



Matrix: SOIL			Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)		
sample ID							Result			
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 5170565)								
HK2325898-015	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	20.6	20.8	1.3		
HK2326347-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	17.7	17.2	2.6		
EG: Metals and Major	Cations (QC Lot: 5162217)									
HK2326505-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	10	11	0.0		
Matrix: WATER				Laboratory Duplicate (DUP) Report						
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)		
sample ID							Result			
EG: Metals and Major	Cations - Filtered (QC Lot: {	5162176)								
HK2326717-001	Anonymous	EG020: Arsenic	7440-38-2	1	µg/L	7	6	17.7		

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

-												
		Method Blank (MB	3) Report		Laboratory Contro	ol Spike (LCS) and Labora	tory Control S	pike Duplicate (DCS) Report			
				Spike	Spike Red	covery (%)	Recove	ry Limits(%)	RPL	7 (%)		
		1	1	Concentration		1						
CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control		
										Limit		
EG: Metals and Major Cations (QC Lot: 5162217)												
7440-38-2	1	mg/kg	<1	10 mg/kg	101		87.2	110				
		Method Blank (MB	3) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report								
				Spike	Spike Recovery (%) Recovery Limits			ry Limits(%)	RPD (%)			
				Concentration								
CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control		
										Limit		
G: Metals and Major Cations - Filtered (QC Lot: 5162176)												
5162176)												
	7440-38-2	7440-38-2 1	CAS Number LOR Unit 7440-38-2 1 mg/kg Method Blank (Mb	7440-38-2 1 mg/kg <1	CAS Number LOR Unit Result 7440-38-2 1 mg/kg <1	CAS Number LOR Unit Result Spike Concentration Spike Concentration 7440-38-2 1 mg/kg <1	CAS Number LOR Unit Result Spike Concentration Spike Concentration 7440-38-2 1 mg/kg <1	CAS Number LOR Unit Result 7440-38-2 1 mg/kg <1	Spike Concentration Spike Concentration Spike Concentration Spike Concentration Spike Concentration Spike Concentration Spike Concentration Spike Concentration Spike Concentration Spike Concentration Spike Concentration Spike Concentration Spike Concentration Spike Concentration Spike Concentration Spike Concentration Spike Concentration Spike Concentration Spike Concentration Spike Recovery (%) Recovery Limits(%)	Spike Spike Spike Recovery (%) Recovery Limits(%) RPL CAS Number LOR Unit Result LCS DCS Low High Value 7440-38-2 1 mg/kg <1		



Matrix: SOIL				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
					Spike Recovery (%)		Recovery Limits (%)		RPD (%)		
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control	
sample ID										Limit	
EG: Metals and	Major Cations (QC Lot: 5162217)										
HK2326505-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	96.3		75.0	125			
Matrix: WATER					Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
Matrix: WATER			[Matrix Spi	ke (MS) and Matrix	Spike Duplica	ate (MSD) Re	əport		
Matrix: WATER				Spike		ike (MS) and Matrix acovery (%)	Spike Duplica Recovery I	, ,	eport RPD	P (%)	
Matrix: WATER	Sample ID	Method: Compound	CAS Number	Spike Concentration		. ,		, ,		0 (%) Control	
	Sample ID	Method: Compound	CAS Number	-	Spike Re	ecovery (%)	Recovery	Limits (%)	RPD		
Laboratory sample ID	<i>Sample ID</i> Major Cations - Filtered (QC Lot: 516217		CAS Number	-	Spike Re	ecovery (%)	Recovery	Limits (%)	RPD	Control	

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 5
Contact	: CESAR, KA HO WONG	Contact	: Richard Fung	Work Order	: HK2327069
Address	: ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing		
	PUI WAN STREET, FO TAN, HONG KONG		Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: CesarWong.si@tysan.com	E-mail	: richard.fung@alsglobal.com		
Telephone	:	Telephone	: +852 2610 1044		
Facsimile	: +852 2511 9826	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION	WORKS FOR S	AN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 10-Jul-2023
	NODE				
Order number	: J2202SF06	Quote	: HKE/1455/2022	Issue Date	: 21-Jul-2023
		number			
C-O-C number	: B102193			No. of samples received	: 6
Site	: SAN TIN / LOK MA CHAU			No. of samples analysed	: 6

the testing laboratory. Hong Kong Accreditation Service (HKAS) has accredited this laboratory, ALS Technichem (HK) Pty Ltd (Reg. No. HOKLAS 066) under Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS Directory of Accredited Laboratories.

Signatories	Position	Authorised results for
The An		
Chan Siu Ming , Vico	Assistant Laboratory Manager	Inorganics
Kenneth		
Wong Wing , Kenneth	Assistant Manager - Metals	Metals_ENV

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 10-Jul-2023 to 19-Jul-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2327069

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.



Sub-Matrix: SOIL Sample ID				AEDH26	AEDH26	AEDH26	AEDH26	AEDH26
				(3.00m)	(6.00m)	(10.00m)	(15.00m)	(20.00m)
	Samplii	ng date / time	10-Jul-2023 09:45	10-Jul-2023 10:20	10-Jul-2023 11:00	10-Jul-2023 13:00	10-Jul-2023 15:00	
Compound	CAS Number	LOR	Unit	HK2327069-001	HK2327069-002	HK2327069-003	HK2327069-004	HK2327069-005
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	20.4	28.4	26.2	18.7	13.2
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	3	38	4	40	15

Page Number	:	4 of 5
Client	:	TYSAN FOUNDATION LTD
Work Order		HK2327069



Sub-Matrix: SOIL			Sample ID	AEDH26	 	
				(25.00m)		
		Samplir	ng date / time	10-Jul-2023 16:00	 	
Compound	CAS Number	LOR	Unit	HK2327069-006		
EA/ED: Physical and Aggregate Properties						
EA055: Moisture Content (dried @ 103°C)		0.1	%	16.0	 	
EG: Metals and Major Cations						
EG020: Arsenic	7440-38-2	1	mg/kg	73	 	



Laboratory Duplicate (DUP) Report

Matrix: SOIL			Laboratory Duplicate (DUP) Report						
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)	
sample ID							Result		
EA/ED: Physical and Aggregate Properties (QC Lot: 5173321)									
HK2325999-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	3.6	3.7	3.7	
HK2326396-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	13.7	13.7	0.0	
EG: Metals and Major Ca	ations (QC Lot: 5164744)								
HK2326760-001	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	9	10	0.0	

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Re	соvегу (%)	Recove	ry Limits(%)	RP	D (%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 5164744)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	103		87.2	110		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: SOIL					Matrix Spi	ike (MS) and Matrix	Spike Duplica	ate (MSD) Re	eport	
				Spike	Spike Re	acovery (%)	Recovery	Limits (%)	RPD	(%)
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit
EG: Metals and M	Major Cations (QC Lot: 5164744)									
HK2326758-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	102		75.0	125		

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ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact	: CESAR, KA HO WONG	Contact	: Richard Fung	Work Order	: HK2327238
Address	: ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing		
	PUI WAN STREET, FO TAN, HONG KONG		Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: CesarWong.si@tysan.com	E-mail	: richard.fung@alsglobal.com		
Telephone	:	Telephone	: +852 2610 1044		
Facsimile	: +852 2511 9826	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION	WORKS FOR S	AN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 11-Jul-2023
	NODE				
Order number	: J2202SF06	Quote	: HKE/1455/2022	Issue Date	: 20-Jul-2023
		number			
C-O-C number	: B102192			No. of samples received	: 1
Site	: SAN TIN / LOK MA CHAU			No. of samples analysed	: 1

the testing laboratory. Hong Kong Accreditation Service (HKAS) has accredited this laboratory, ALS Technichem (HK) Pty Ltd (Reg. No. HOKLAS 066) under Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS Directory of Accredited Laboratories.
 Signatories
 Position
 Authorised results for

 Image: Chan Siu Ming , Vico
 Assistant Laboratory Manager
 Inorganics

 Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Ima

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Testing period is from 11-Jul-2023 to 19-Jul-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2327238

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.

Sample(s) as received, digested by in-house method E-ASTM D3974-09 prior to determination of metals. The in-house method is developed based on ASTM D3974-09 method.



Analytical Results

Sub-Matrix: SOIL	-Matrix: SOIL Sample ID		AEDH26 (30.00m)					
		Samplii	ng date / time	11-Jul-2023 10:15				
Compound	CAS Number	LOR	Unit	HK2327238-001				
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	14.4				
EG: Metals and Major Cations	·				-	-	-	
EG020: Arsenic	7440-38-2	1	mg/kg	226				



Laboratory Duplicate (DUP) Report

Matrix: SOIL			Laboratory Duplicate (DUP) Report						
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)	
sample ID							Result		
EA/ED: Physical and Agg	regate Properties (QC Lot: 51788	93)							
HK2326154-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	16.9	16.5	2.3	
HK2326478-004	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	19.4	19.5	0.0	

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Red	covery (%)	Recove	ry Limits(%)	RP	D (%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 5173442)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	102		87.2	110		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: SOIL					Matrix Spi	ke (MS) and Matrix	Spike Duplica	ate (MSD) Re	eport	
				Spike	Spike Re	covery (%)	Recovery I	Limits (%)	RPD	(%)
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and I	Major Cations (QC Lot: 5173442)									
HK2327238-001	AEDH26 (30.00m)	EG020: Arsenic	7440-38-2	10 mg/kg	# Not		75.0	125		
					Determined					

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ANALYTICAL CHEMISTRY & TESTING SERVICES

: TYSAN FOUNDATION LTD

Client



: 1 of 7

CERTIFICATE OF ANALYSIS Laboratory : ALS Technichem (HK) Pty Ltd Page

		· · · · · ,		- 9 -	
Contact Address	: CESAR, KA HO WONG : ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU	Contact Address	 Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing 	Work Order	: HK2327799
	PUI WAN STREET, FO TAN, HONG KONG		Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: CesarWong.si@tysan.com	E-mail	: richard.fung@alsglobal.com		
Telephone	:	Telephone	: +852 2610 1044		
Facsimile	: +852 2511 9826	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION	WORKS FOR SA	AN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 13-Jul-2023
	NODE				
Order number	: J2202SF06	Quote	: HKE/1455/2022	Issue Date	: 26-Jul-2023
		number			
C-O-C number	: B102194			No. of samples received	: 7
Site	: SAN TIN / LOK MA CHAU			No. of samples analysed	: 7

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Signatories	Position	Authorised results for
Ma Sing		
Chan Siu Ming , Vico	Assistant Laboratory Manager	Inorganics
, ∕∼́⊥		
Lin Wai Yu , Iris	Assistant Manager - Inorganics	Inorganics
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Metals	Metals_ENV

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not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 13-Jul-2023 to 24-Jul-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2327799

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Result(s) of soil/sediment sample(s) is/are reported on dry weight basis.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.

Water sample(s) were filtered prior to dissolved metal analysis.

Sample(s) as received, digested by in-house method E-ASTM D3974-09 prior to determination of metals. The in-house method is developed based on ASTM D3974-09 method.



Analytical Results

Sub-Matrix: SOIL	Sample ID			AEDH29	AEDH29	AEDH29	AEDH29	AEDH29
			(0.50m)	(1.50m)	(3.00m)	(6.00m)	(6.00m duplicate)	
Sampling date / time				13-Jul-2023 09:45	13-Jul-2023 11:15	13-Jul-2023 13:00	13-Jul-2023 13:40	13-Jul-2023 13:45
Compound	CAS Number	LOR	Unit	HK2327799-001	HK2327799-002	HK2327799-003	HK2327799-004	HK2327799-005
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)		0.1	%	19.1	12.8	19.1	27.3	28.5
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	81	32	15	232	249

Page Number	:	4 of 7
Client	:	TYSAN FOUNDATION LTD
Work Order		HK2327799



Sub-Matrix: SOIL			Sample ID	AEDH29	 	
				(10.00m)		
Sampling date / time				13-Jul-2023 14:15	 	
Compound	CAS Number	LOR	Unit	HK2327799-006	 	
EA/ED: Physical and Aggregate Properties						
EA055: Moisture Content (dried @ 103°C)		0.1	%	26.2	 	
EG: Metals and Major Cations						
EG020: Arsenic	7440-38-2	1	mg/kg	80	 	

Page Number	:	5 of 7
Client	:	TYSAN FOUNDATION LTD
Work Order		HK2327799



Sub-Matrix: WATER			Sample ID	AEDH29	 	
				(Equipment Blank)		
		Samplin	ng date / time	13-Jul-2023 13:50	 	
Compound	CAS Number	LOR	Unit	HK2327799-007		
EG: Metals and Major Cations - Filtered						
EG020: Arsenic	7440-38-2	10	µg/L	<10	 	



Laboratory Duplicate (DUP) Report

Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)	
sample ID							Result		
EA/ED: Physical and A	ggregate Properties (QC Lot: 5	5181406)							
HK2327108-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	11.8	11.6	1.9	
HK2327420-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	27.3	26.9	1.4	
EA/ED: Physical and A	ggregate Properties (QC Lot: 5	5181407)							
HK2327799-004	AEDH29 (6.00m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	27.3	27.4	0.4	
HK2328051-008	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	24.6	24.8	1.0	
EG: Metals and Major	Cations (QC Lot: 5173448)								
HK2327294-001	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	8	8	0.0	
Matrix: WATER			Γ	Laboratory Duplicate (DUP) Report					
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)	
sample ID							Result		
EG: Metals and Major	Cations - Filtered (QC Lot: 517	3465)				1			
HK2327845-007	Anonymous	EG020: Arsenic	7440-38-2	1	µg/L	<10	<10	0.0	

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL	Г		Method Blank (MB	3) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)		
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EG: Metals and Major Cations (QC Lot: 5173448)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	103		87.2	110		
		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
Matrix: WATER			Method Blank (ME	3) Report		Laboratory Contr	ol Spike (LCS) and Labora	atory Control S	pike Duplicate (DCS) Report	
Matrix: WATER			Method Blank (ME	3) Report	Spike Concentration	-	ol Spike (LCS) and Labora covery (%)		pike Duplicate (pry Limits(%)		D (%)
Matrix: WATER Method: Compound	CAS Number	LOR	Method Blank (ME Unit	3) Report Result	Spike Concentration	-					D (%) Control
	CAS Number	LOR				Spike Re	со vегу (%)	Recove	ory Limits(%)	RP	
		LOR				Spike Re	со vегу (%)	Recove	ory Limits(%)	RP	Control



Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: SOIL	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					eport				
				Spike	Spike Re	covery (%)	Recovery I	Limits (%)	RPD	(%)
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and	Major Cations (QC Lot: 5173448)									
HK2327294-001	Anonymous	EG020: Arsenic	7440-38-2	10 mg/kg	101		75.0	125		
Matrix: WATER			[Matrix Spi	ke (MS) and Matrix	Spike Duplica	ate (MSD) Re	aport .	
Matrix: WATER			-	Spike		ke (MS) and Matrix covery (%)	Spike Duplica Recovery	. ,	eport RPD	9 (%)
Matrix: WATER	Sample ID	Method: Compound	CAS Number	Spike Concentration				. ,		(%) Control
	Sample ID	Method: Compound	CAS Number	-	Spike Re	осоvелу (%)	Recovery	Limits (%)	RPD	
Laboratory sample ID	<i>Sample ID</i> Major Cations - Filtered (QC Lot: 517346		CAS Number	-	Spike Re	осоvелу (%)	Recovery	Limits (%)	RPD	Control

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ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: TYSAN FOUNDATION LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact Address	 CESAR, KA HO WONG ROOM 1219, 12/F LEADER INDUSTRIAL CENTRE, NOS. 57-59 AU PUI WAN STREET, FO TAN, HONG KONG 	Contact Address	 Richard Fung 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong 	Work Order	: HK2328092
E-mail Telephone Facsimile	: CesarWong.si@tysan.com : : +852 2511 9826	E-mail Telephone Facsimile	: richard.fung@alsglobal.com : +852 2610 1044 : +852 2610 2021		
Project	: CONTRACT NO. ND/2021/04 ADVANCE GROUND INVESTIGATION NODE	WORKS FOR S	AN TIN / LOK MA CHAU DEVELOPMENT	Date Samples Received	: 14-Jul-2023
Order number	: J2202SF06	Quote number	: HKE/1455/2022	Issue Date	: 19-Jul-2023
C-O-C number	: B102191			No. of samples received	: 2
Site	: SAN TIN / LOK MA CHAU			No. of samples analysed	: 2

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the testing laboratory. Hong Kong Accreditation Service (HKAS) has accredited this laboratory, ALS Technichem (HK) Pty Ltd (Reg. No. HOKLAS 066) under Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS Directory of Accredited Laboratories.

Signatories	Position	Authorised results for
The Ang		
Chan Siu Ming , Vico	Assistant Laboratory Manager	Inorganics
Kemeth		
Wong Wing , Kenneth	Assistant Manager - Metals	Metals_ENV

ALS Technichem (HK) Pty Ltd Part of the ALS Laboratory Group

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 www.alsglobal.com



General Comments

This report supersedes any previous report(s) with the same work order number. All pages of this report have been checked and approved for release. When sampling time information is

not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 14-Jul-2023 to 19-Jul-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2328092

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.

Sample(s) as received, digested by in-house method E-ASTM D3974-09 prior to determination of metals. The in-house method is developed based on ASTM D3974-09 method.



Analytical Results

Sub-Matrix: SOIL			Sample ID	AEDH 29 (15.00m)	AEDH 29 (20.00m)	 	
		Samplii	ng date / time	14-Jul-2023 10:00	14-Jul-2023 11:15	 	
Compound	CAS Number	LOR	Unit	HK2328092-001	HK2328092-002	 	
EA/ED: Physical and Aggregate Properties							
EA055: Moisture Content (dried @ 103°C)		0.1	%	16.5	15.5	 	
EG: Metals and Major Cations							
EG020: Arsenic	7440-38-2	1	mg/kg	221	207	 	



Laboratory Duplicate (DUP) Report

Matrix: SOIL			Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	LOR	Unit	Original Result	Duplicate Result	RPD (%)	
EA/ED: Physical and Aggr	egate Properties (QC Lot: 51788	94)						
HK2328092-001	AEDH 29 (15.00m)	EA055: Moisture Content (dried @ 103°C)		0.1	%	16.5	16.4	0.0
EG: Metals and Major Cati	ons (QC Lot: 5181647)							
HK2328092-002	AEDH 29 (20.00m)	EG020: Arsenic	7440-38-2	1	mg/kg	207	208	0.0

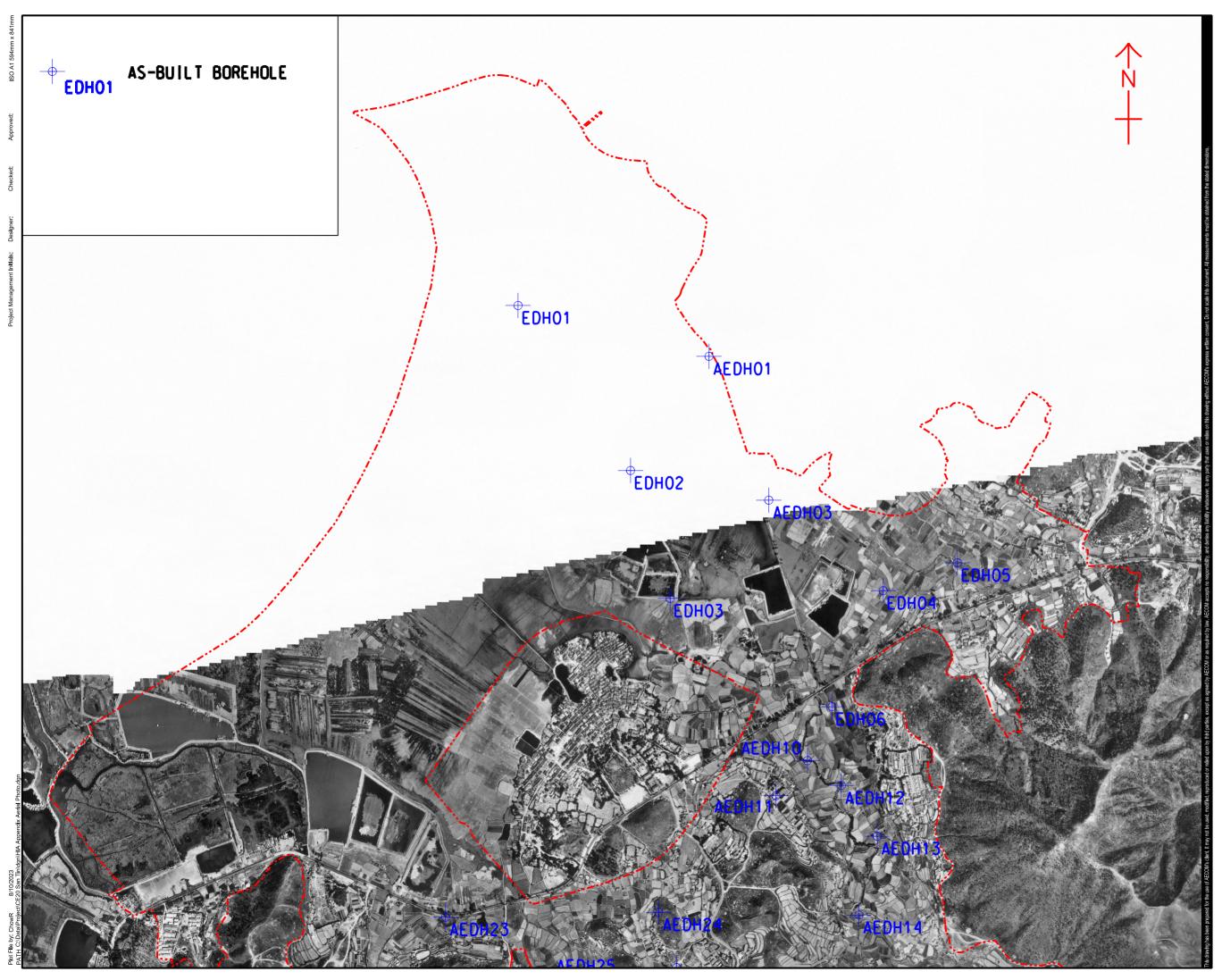
Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL Method B			Method Blank (MB) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					DCS) Report	
				Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)		
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 5181647)											
EG020: Arsenic	7440-38-2	1	mg/kg	<1	10 mg/kg	101		87.2	110		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: SOIL			Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
				Spike	Spike Re	со <i>vөгу</i> (%)	Recovery	Limits (%)	RPD	0 (%)
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and Major Cations (QC Lot: 5181647)										
HK2328092-001	AEDH 29 (15.00m)	EG020: Arsenic	7440-38-2	10 mg/kg	# Not		75.0	125		
					Determined					

Appendix E Selected Aerial Photographs





PROJECT _{項目}

FIRST PHASE DEVELOPMENT OF THE NEW TERRITORIES NORTH – SAN TIN / LOK MA CHAU DEVELOPMENT NODE – INVESTIGATION





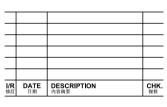
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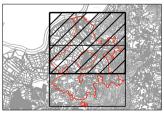
SCALE 比例

DIMENSION UNIT

METRES

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KEY PLAN 索引圖



PROJECT NO. ^{項目編號}

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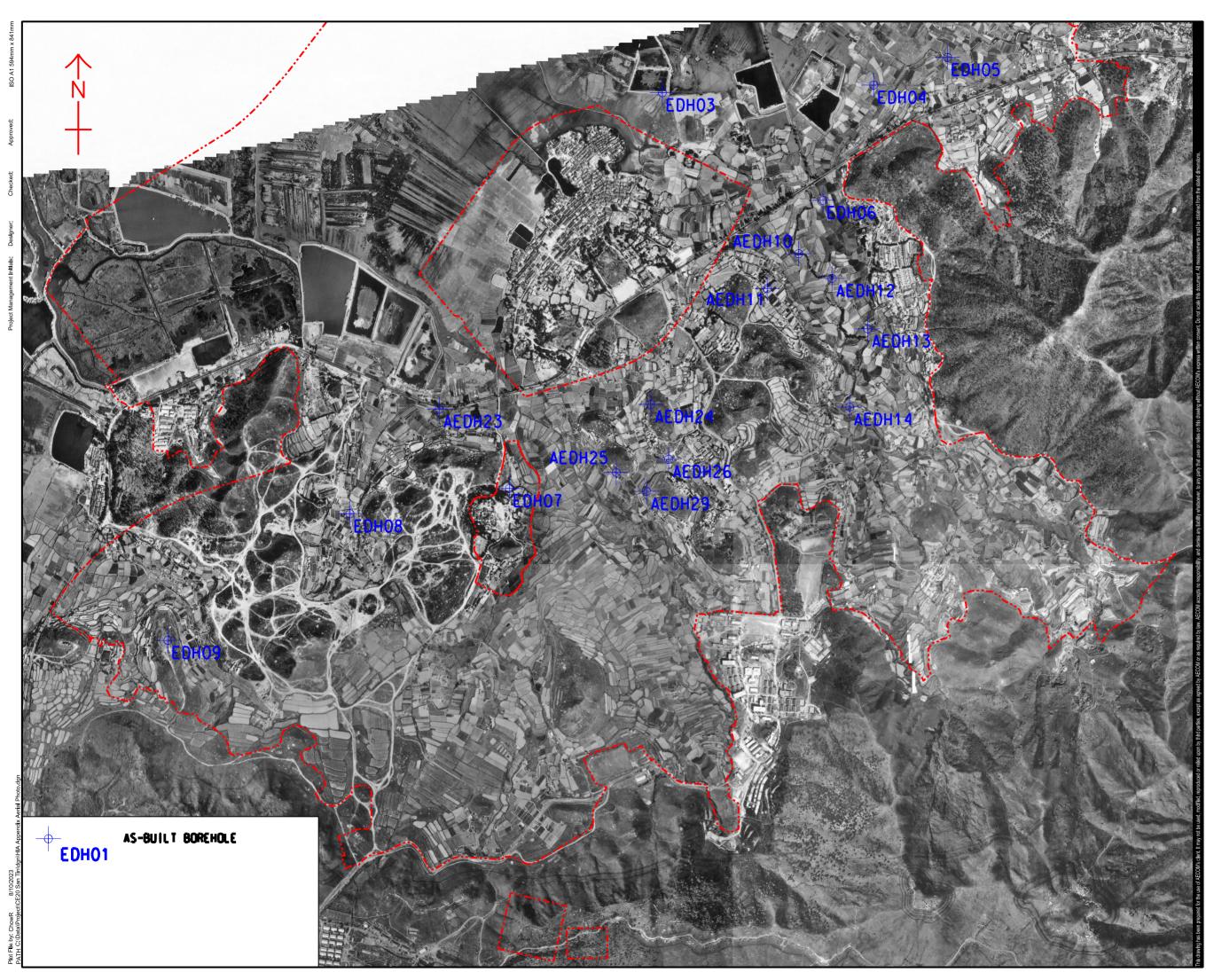
AGREEMENT NO.

SHEET TITLE **圖**紙名稱

AERIAL PHOTOGRAPH YEAR 1963

SHEET NUMBER _{圖紙編號}

D26/APP-1.1





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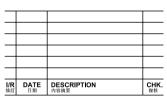
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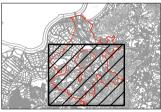
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DIMENSION UNIT

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METRES

KEY PLAN ^{索引圖}



PROJECT NO. 項目編號

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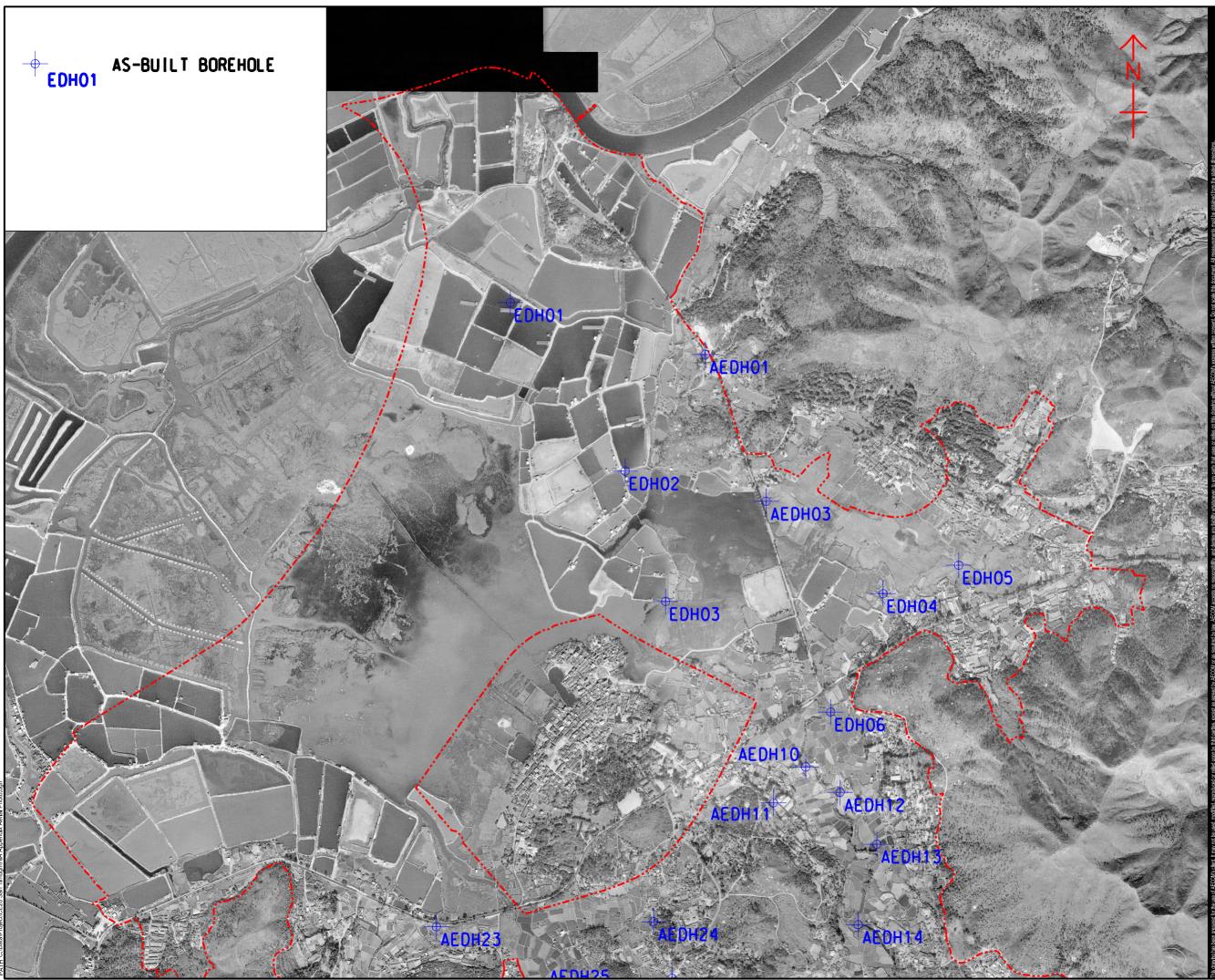
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AERIAL PHOTOGRAPH YEAR 1963

SHEET NUMBER _{圖紙編號}



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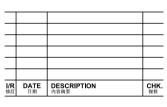
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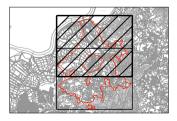
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SCALE 比例

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METRES

KEY PLAN ^{索引爾}



PROJECT NO. 項目編號

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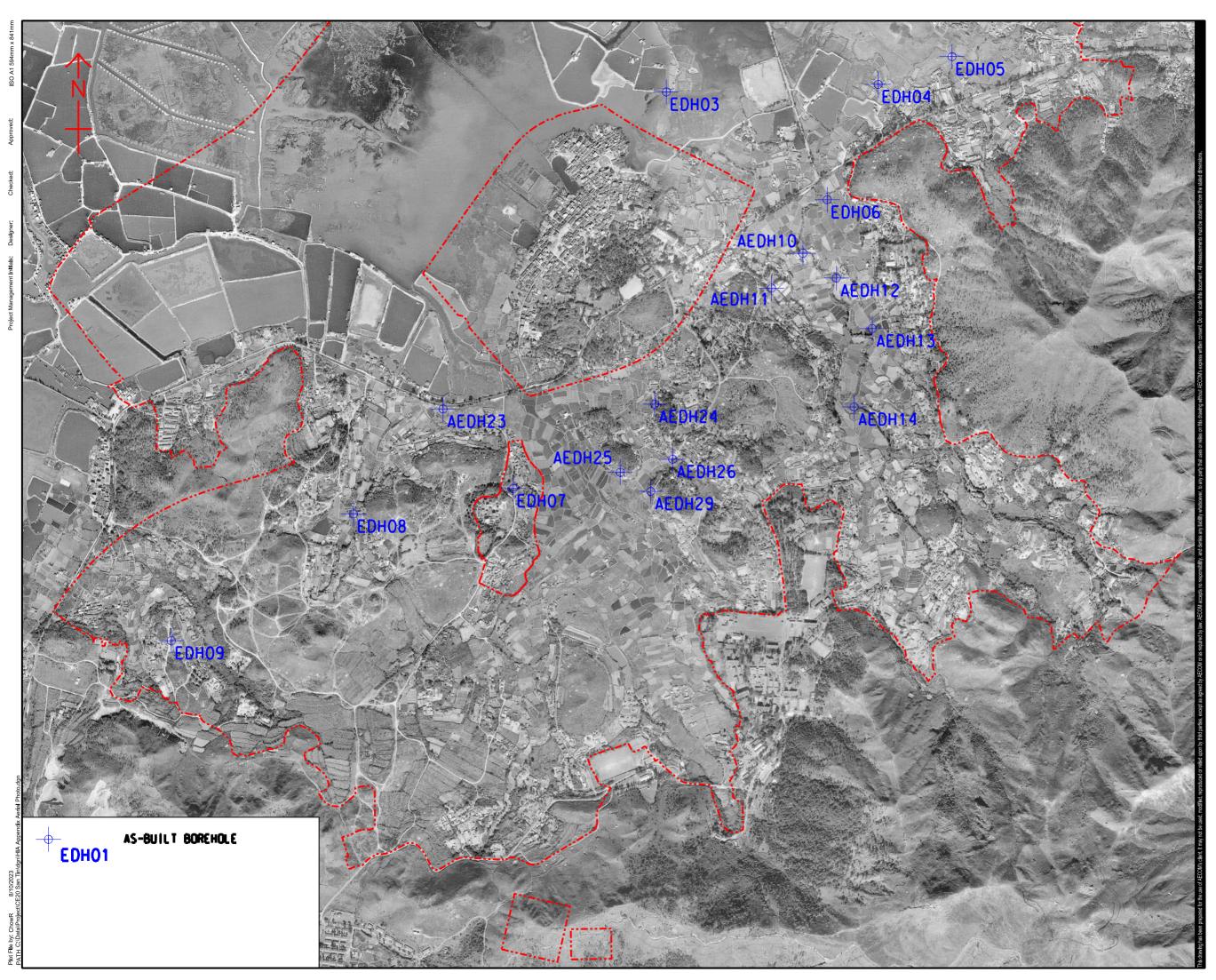
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AERIAL PHOTOGRAPH YEAR 1973

SHEET NUMBER _{圖紙編號}

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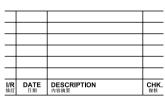
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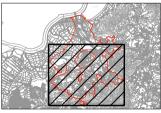
STATUS

SCALE 比例

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METRES

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AERIAL PHOTOGRAPH YEAR 1973

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PROJECT _{項目}

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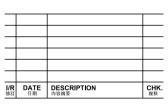
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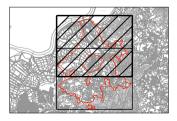
SCALE 比例

DIMENSION UNIT

METRES

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PROJECT NO. 項目編號

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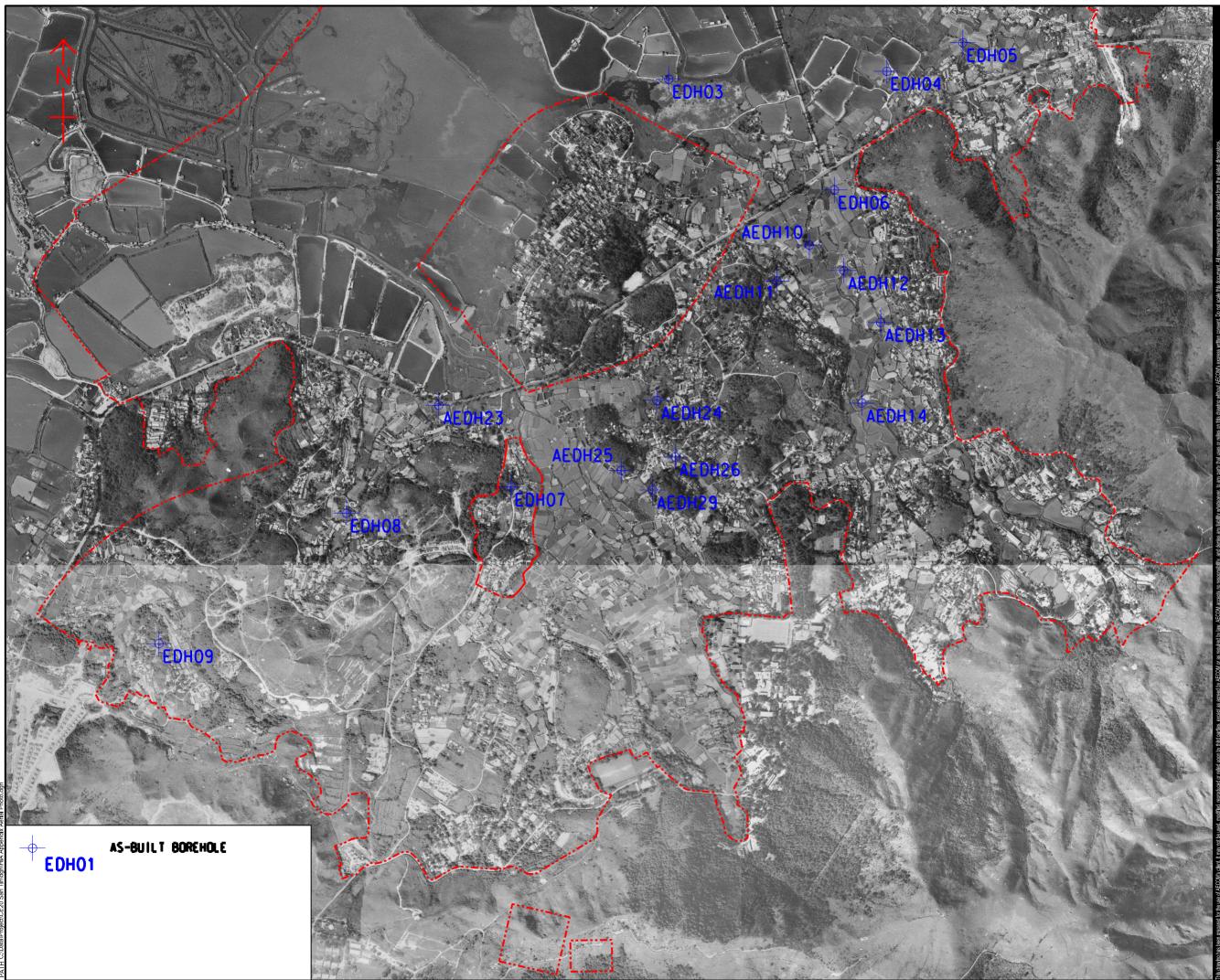
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AERIAL PHOTOGRAPH YEAR 1982

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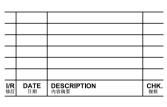
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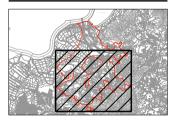
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SCALE 比例

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KEY PLAN ^{索引爾}



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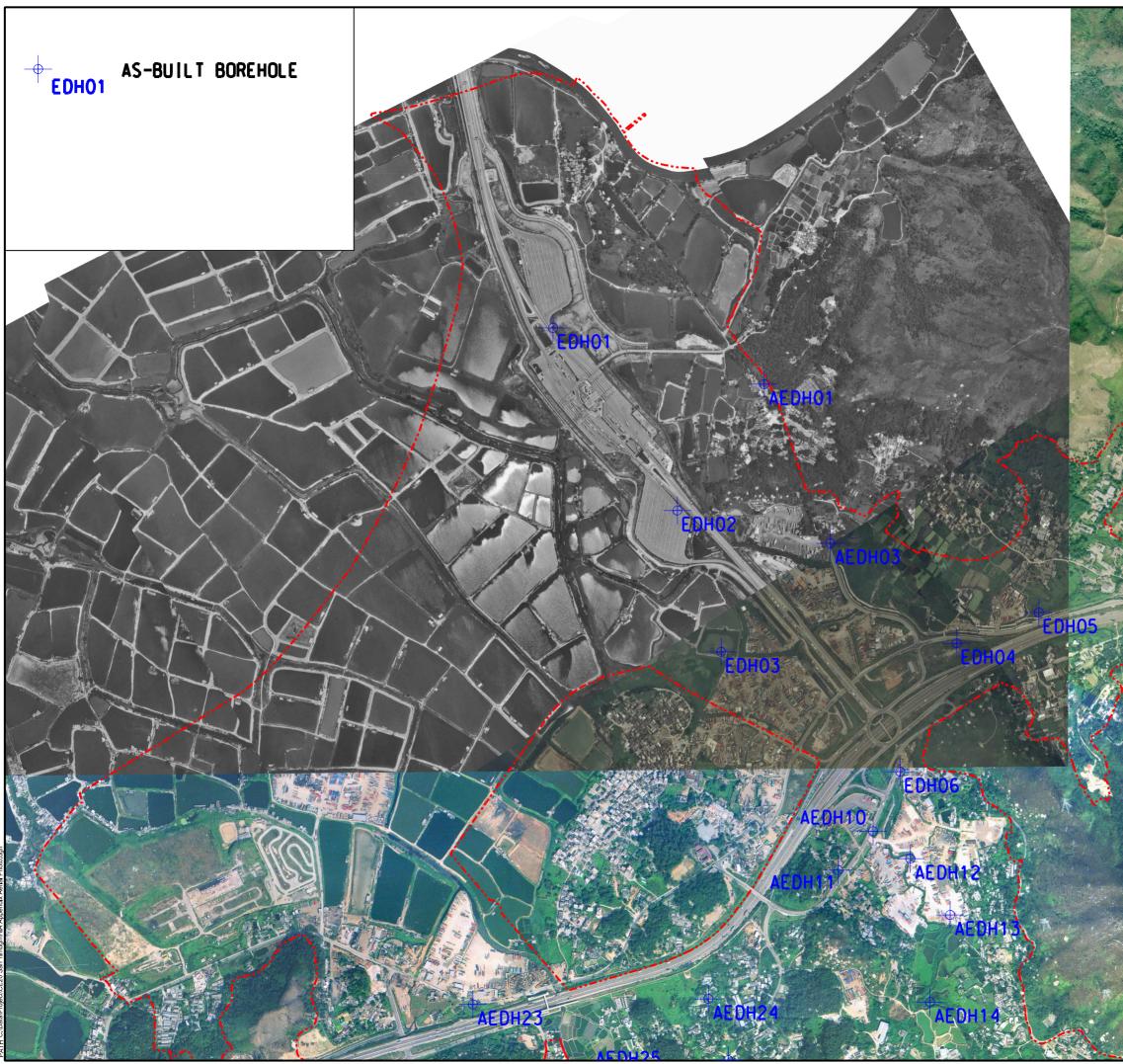
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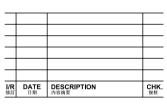
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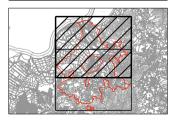
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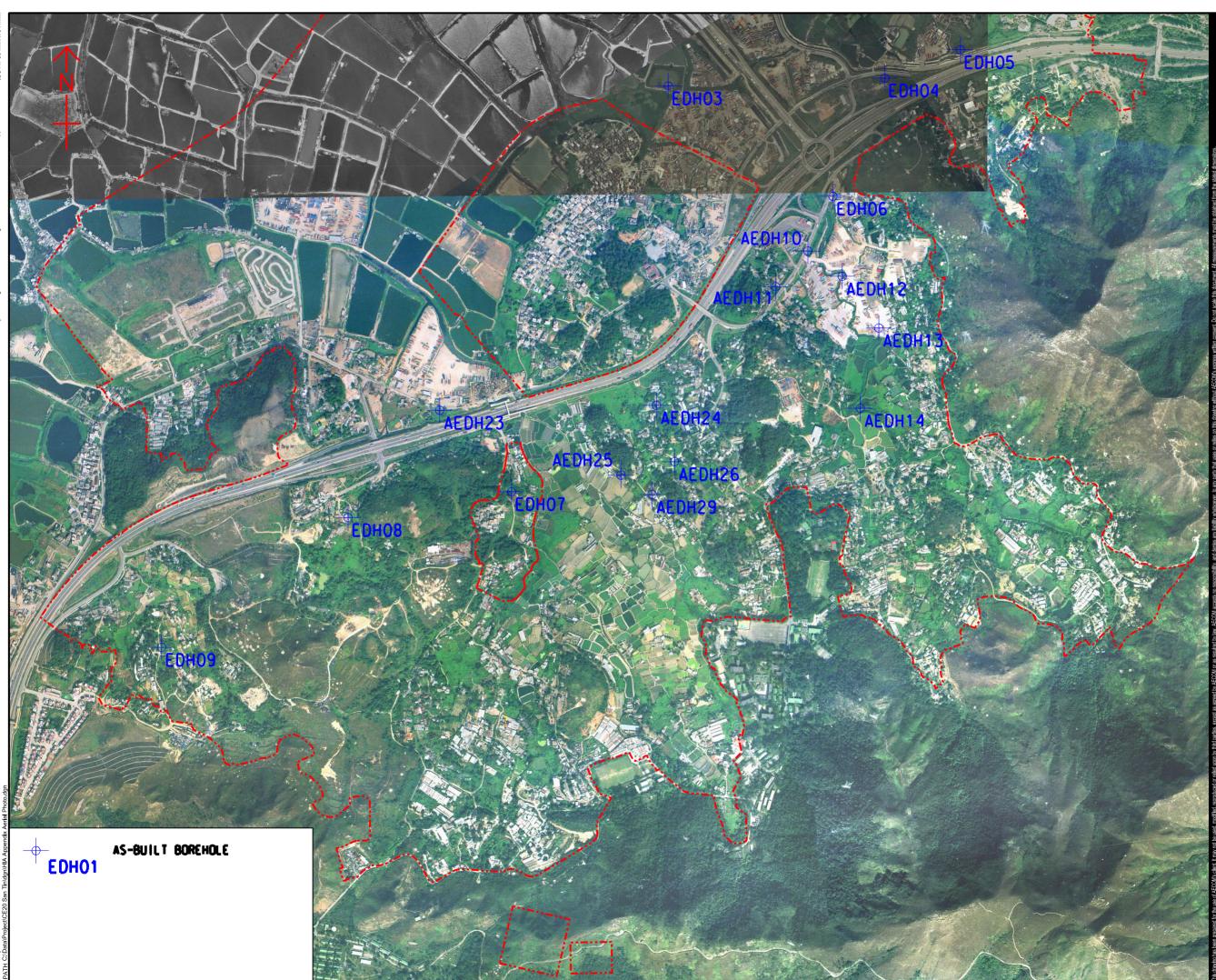
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AERIAL PHOTOGRAPH YEAR 1993

SHEET NUMBER _{圖紙編號}

D26/APP-4.1

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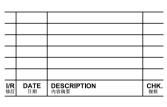
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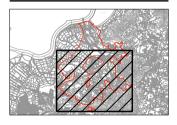
SCALE 比例

DIMENSION UNIT

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KEY PLAN ^{索引爾}



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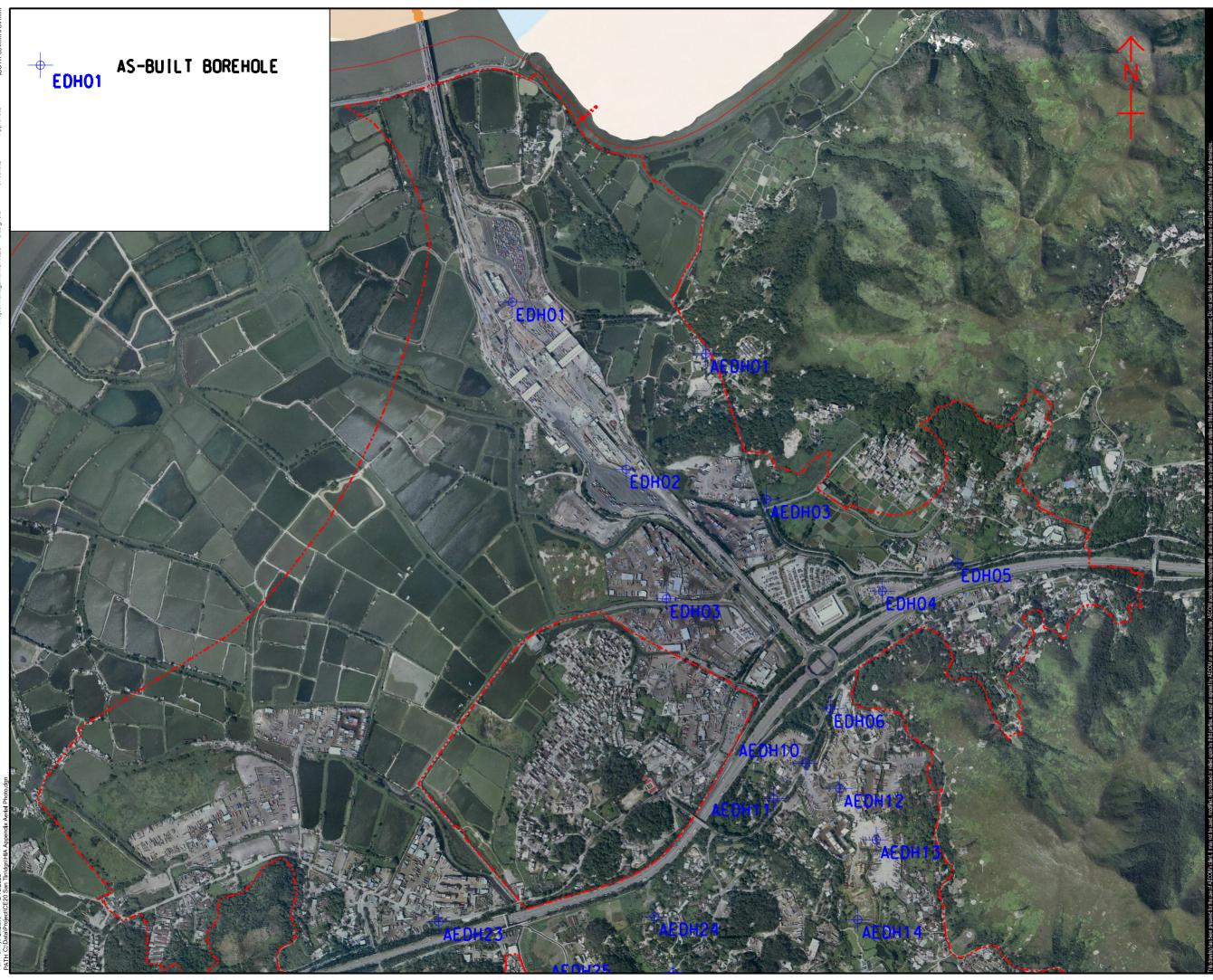
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SHEET TITLE **圖**紙名稱

AERIAL PHOTOGRAPH YEAR 1993

SHEET NUMBER _{圖紙編號}





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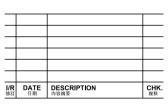
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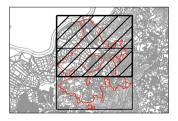
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SCALE 比例

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PROJECT NO. _{項目編號}

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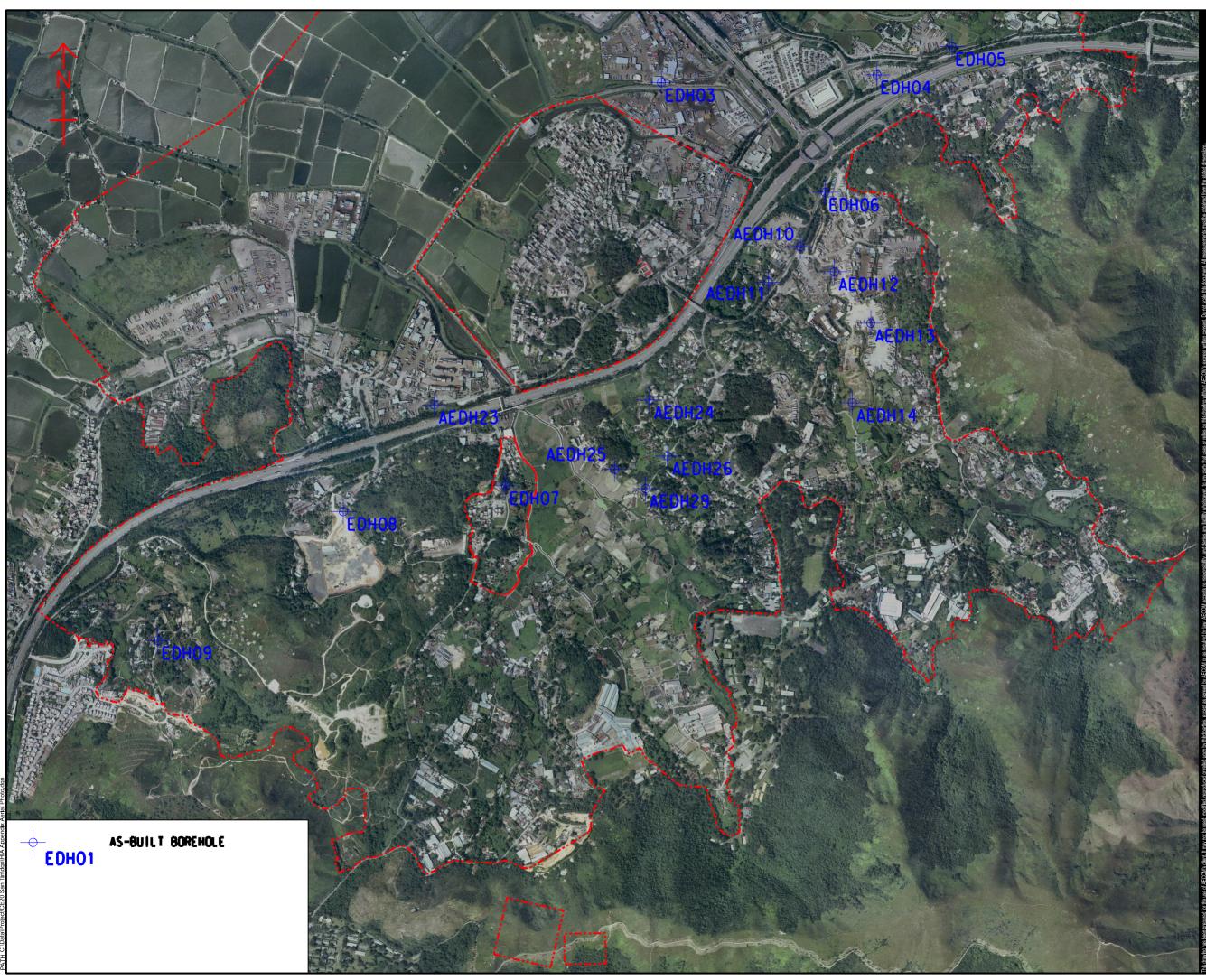
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AERIAL PHOTOGRAPH YEAR 2002

SHEET NUMBER _{國紙編號}

D26/APP-5.1

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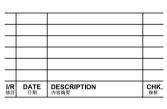
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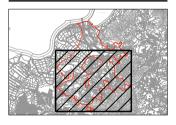
SCALE 比例

DIMENSION UNIT

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METRES

KEY PLAN ^{索引闌}



PROJECT NO. _{項目編號}

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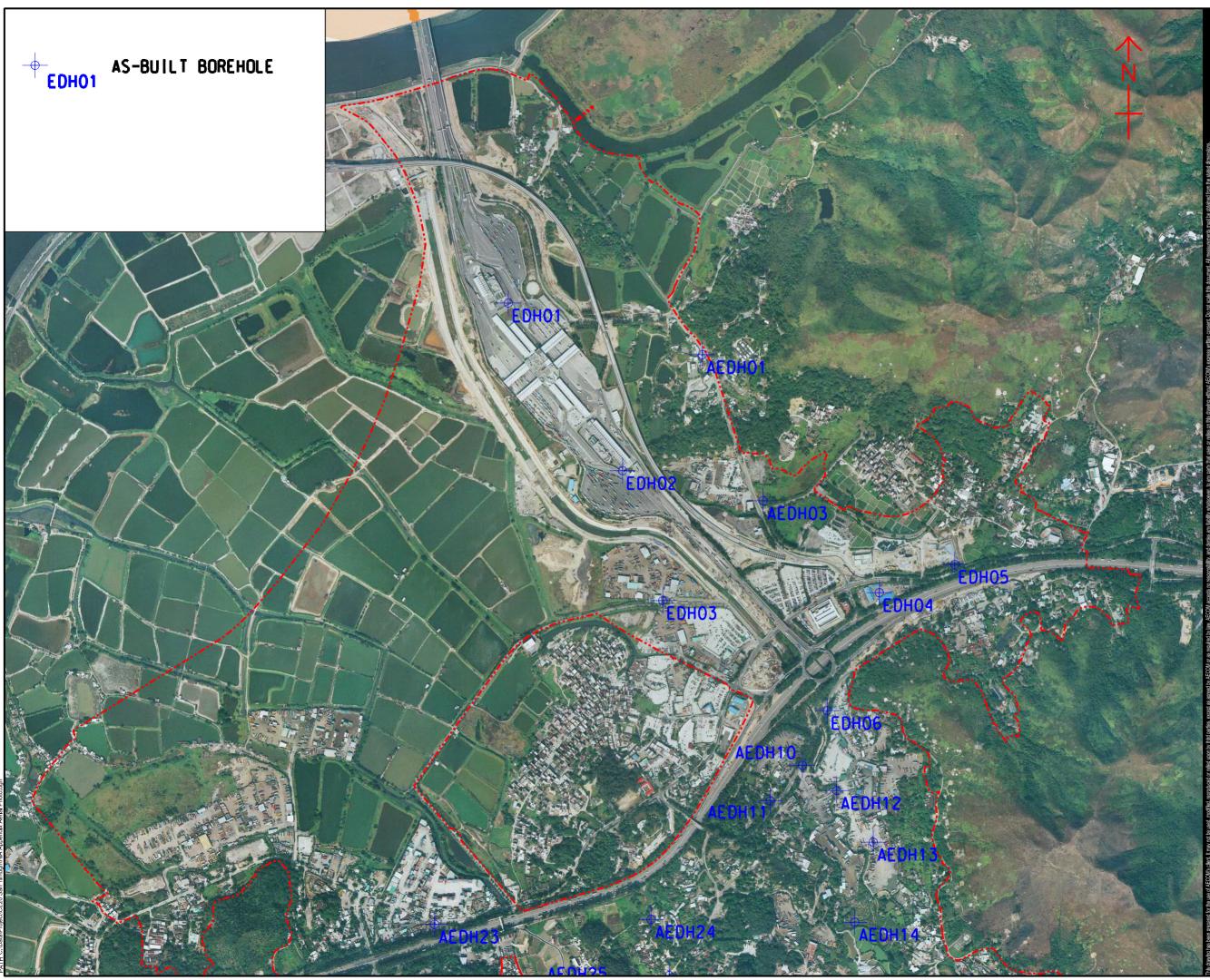
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SHEET TITLE **圖**紙名稱

AERIAL PHOTOGRAPH YEAR 2002

SHEET NUMBER _{圖紙編號}





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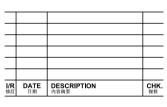
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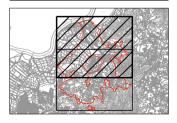
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SCALE 比例

A3 1:2500

METRES

KEY PLAN ^{索引闌}



PROJECT NO. ^{項目編號}

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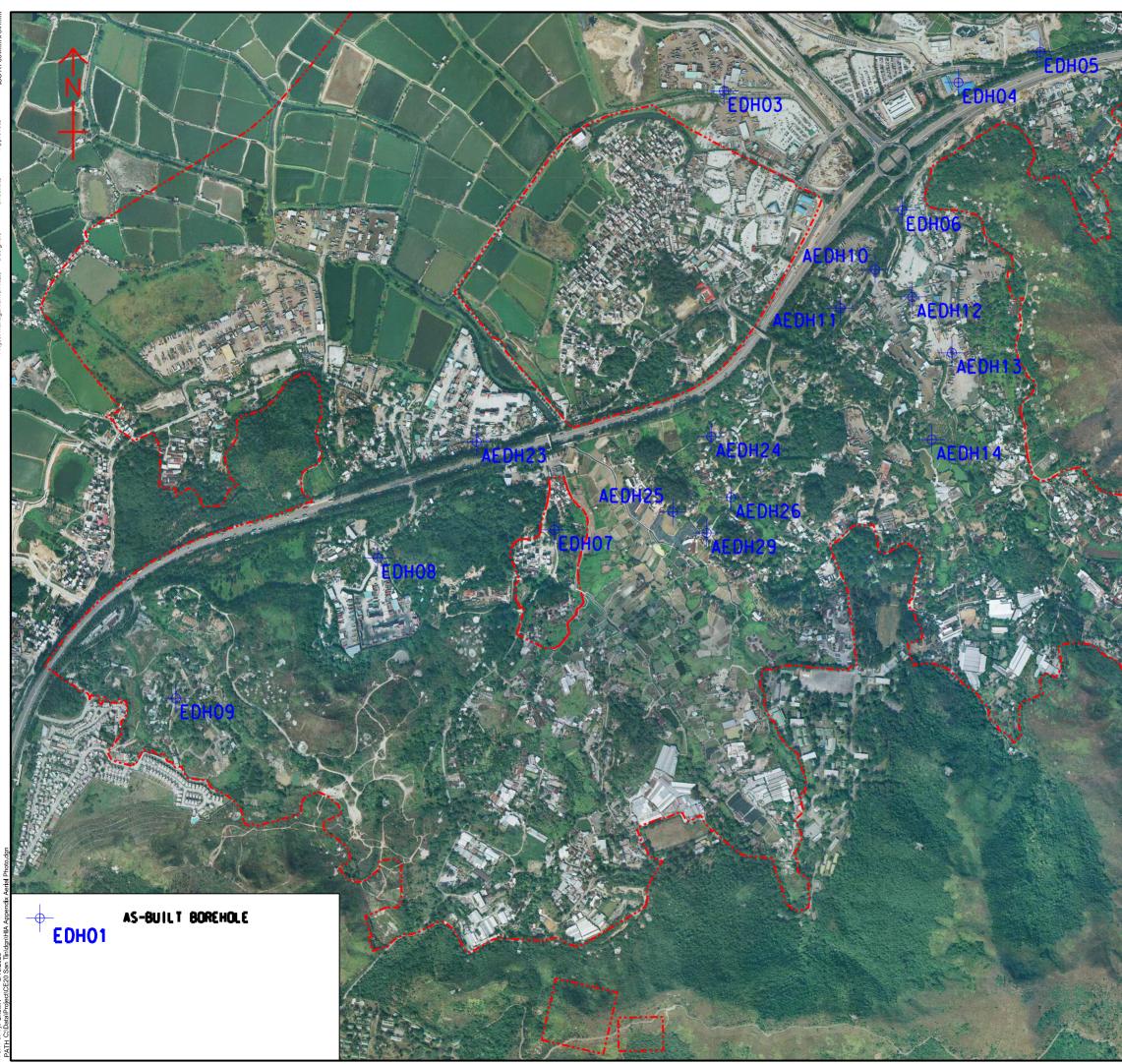
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SHEET TITLE 圖紙名稱

AERIAL PHOTOGRAPH YEAR 2006

SHEET NUMBER _{圖紙編號}

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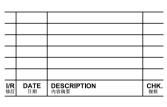
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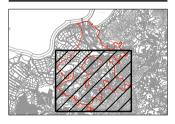
SCALE 比例

DIMENSION UNIT

A3 1:10000

METRES

KEY PLAN ^{索引圖}



PROJECT NO. _{項目編號}

AGREEMENT NO.

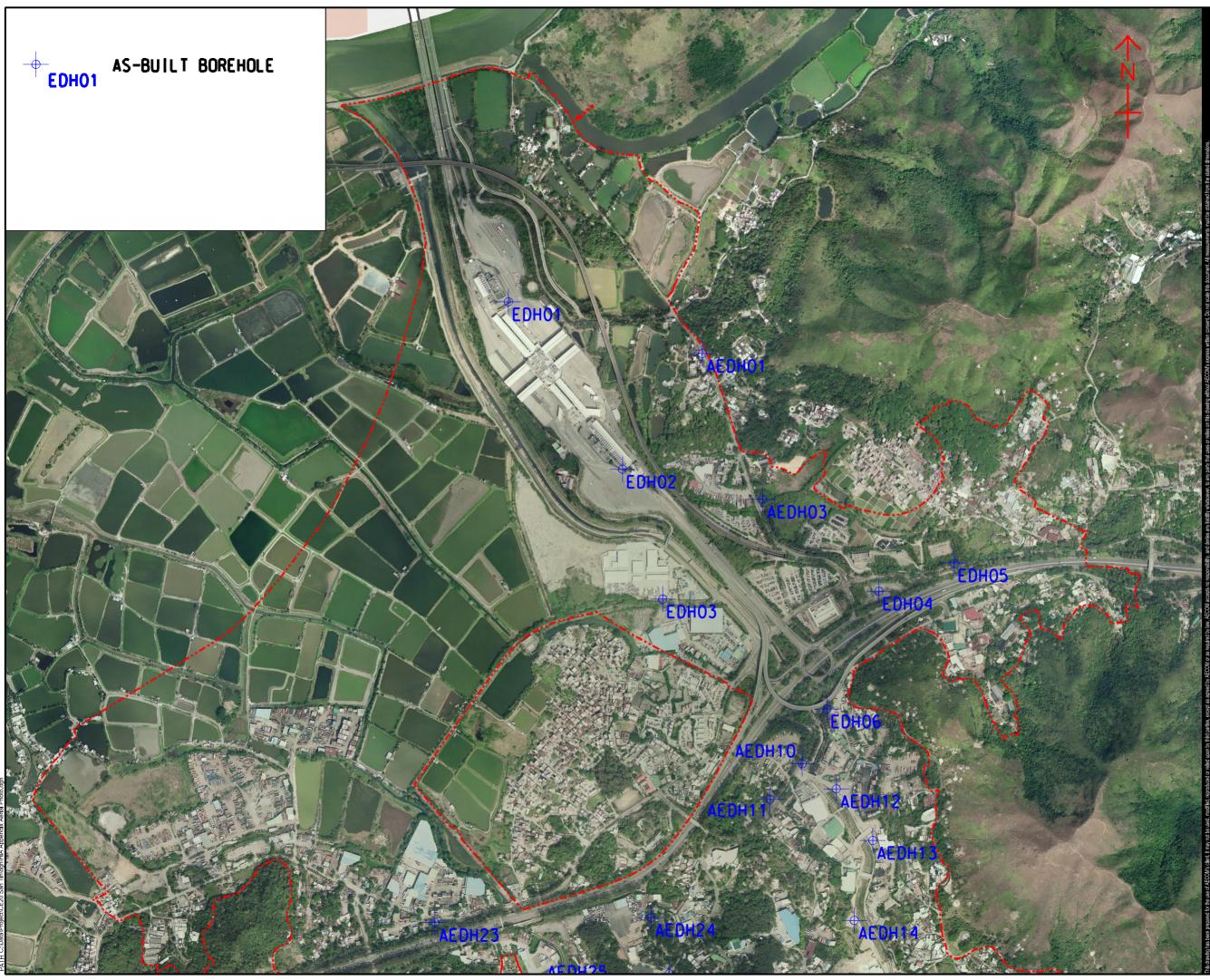
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SHEET TITLE 圖紙名稱

AERIAL PHOTOGRAPH YEAR 2006

SHEET NUMBER _{圖紙編號}





FIRST PHASE DEVELOPMENT OF THE NEW TERRITORIES NORTH – SAN TIN / LOK MA CHAU DEVELOPMENT NODE – INVESTIGATION



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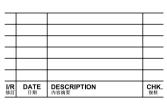
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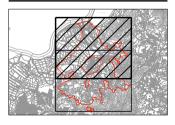
STATUS

SCALE 比例

A3 1:2500

METRES

KEY PLAN ^{索引闌}



PROJECT NO. ^{項目編號}

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AGREEMENT NO.

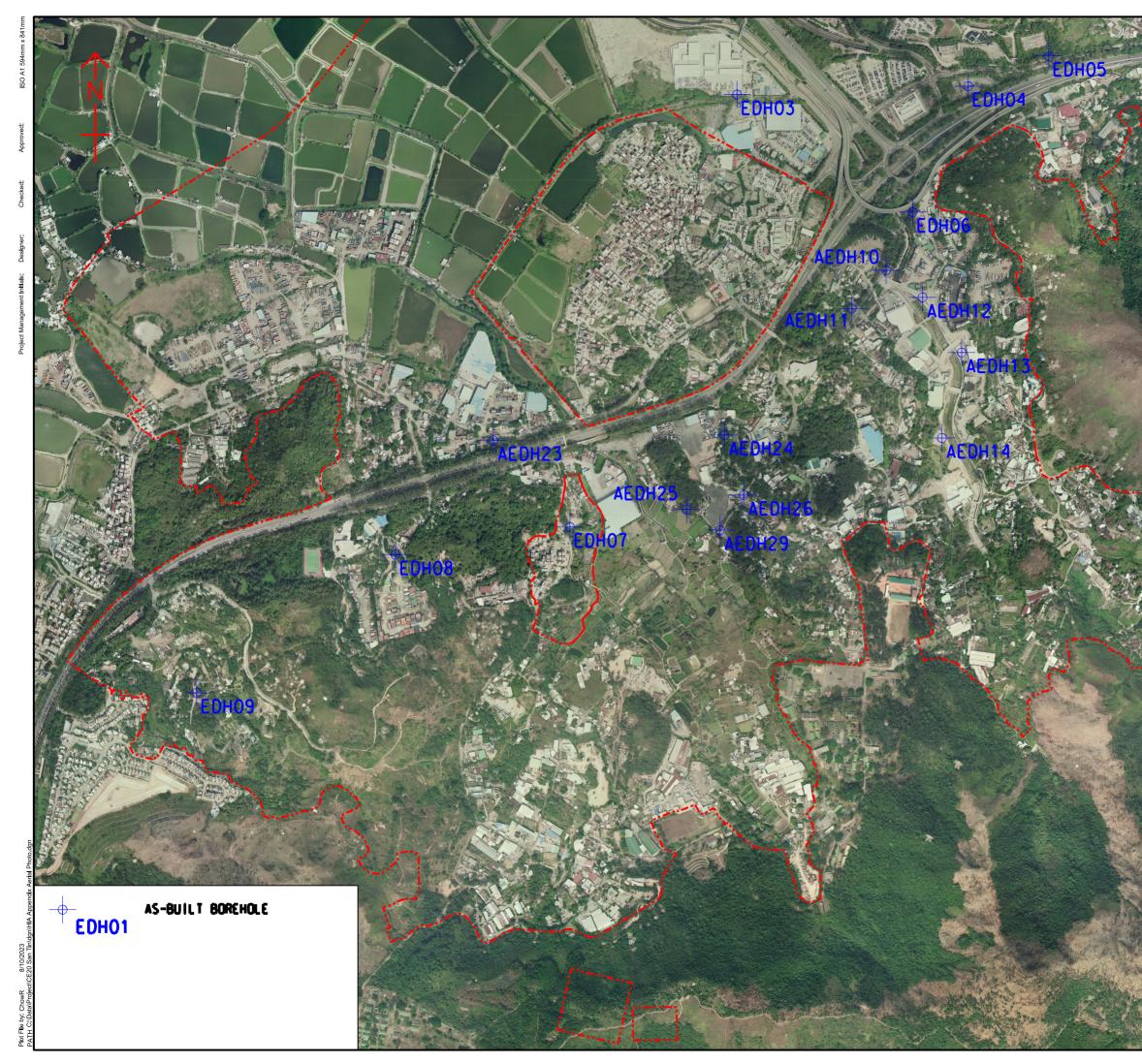
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AERIAL PHOTOGRAPH YEAR 2014

SHEET NUMBER _{圖紙編號}

D26/APP-7.1

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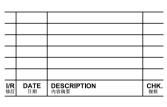
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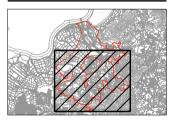
SCALE 比例

DIMENSION UNIT

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METRES

KEY PLAN ^{索引闌}



PROJECT NO. 項目編號

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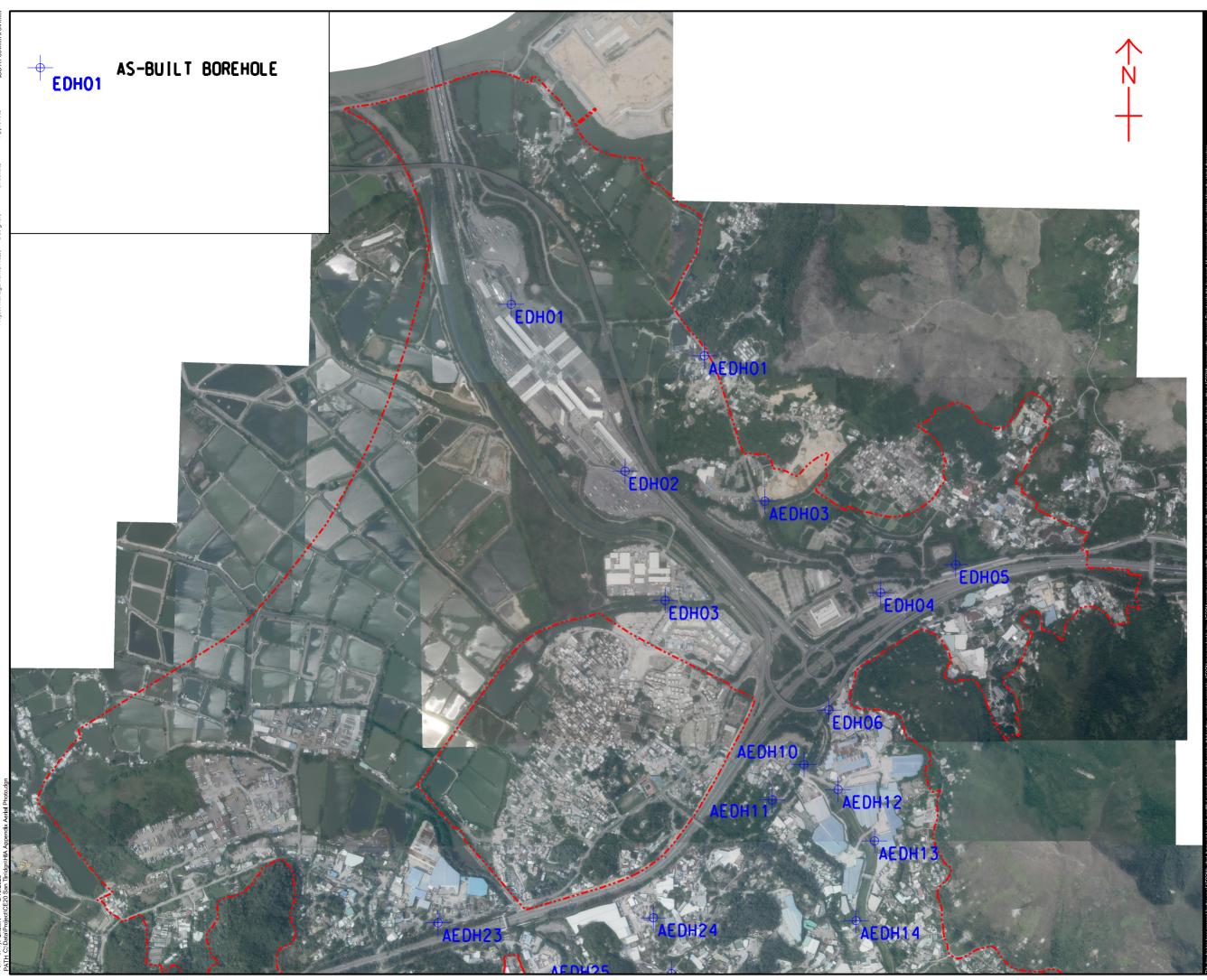
AGREEMENT NO.

CE 20/2021

SHEET TITLE **圖**紙名稱

AERIAL PHOTOGRAPH YEAR 2014

SHEET NUMBER _{圖紙編號}



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PROJECT ^{項目}

FIRST PHASE DEVELOPMENT OF THE NEW TERRITORIES NORTH – SAN TIN / LOK MA CHAU DEVELOPMENT NODE – INVESTIGATION





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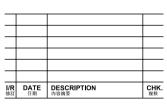
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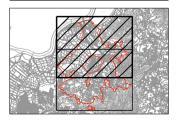
SCALE 比例

DIMENSION UNIT

A3 1:2500

METRES

KEY PLAN ^{索引闌}



PROJECT NO. ^{項目編號}

AGREEMENT NO.

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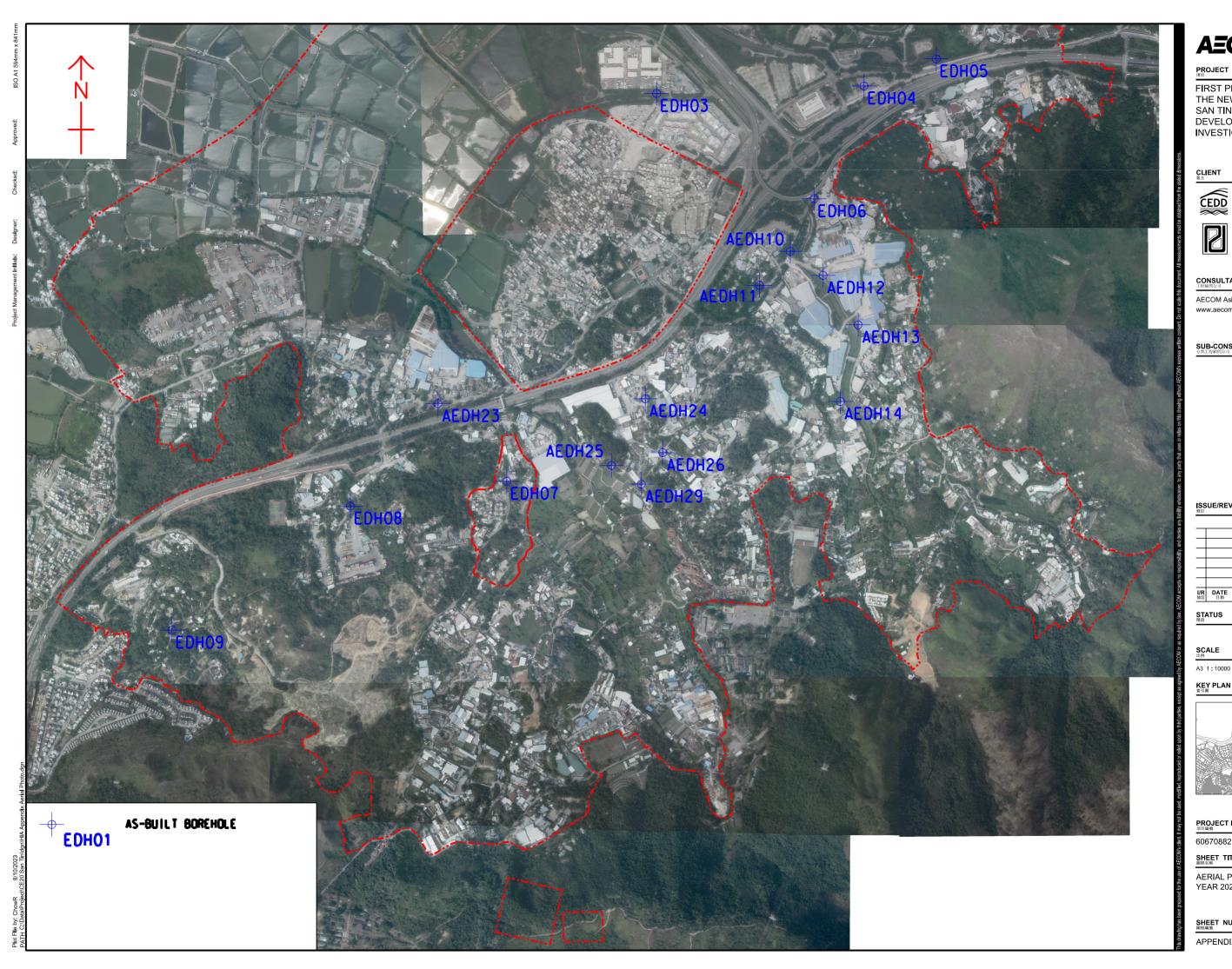
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SHEET TITLE 圖紙名稱

AERIAL PHOTOGRAPH YEAR 2020

SHEET NUMBER _{國紙編號}

D26/APP-8.1





FIRST PHASE DEVELOPMENT OF THE NEW TERRITORIES NORTH – SAN TIN / LOK MA CHAU DEVELOPMENT NODE – INVESTIGATION





規劃署

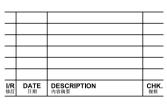
Planning Dep

CONSULTANT

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ISSUE/REVISION



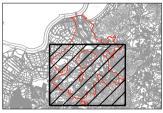
STATUS

SCALE 比例

DIMENSION UNIT

METRES

KEY PLAN ^{索引爾}



PROJECT NO. _{項目編號}

AGREEMENT NO.

60670882

CE 20/2021

SHEET TITLE 圖紙名稱

AERIAL PHOTOGRAPH YEAR 2020

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Appendix F Calculation of Soil Screening Level for Ingestion Pathway

Arsenic soil screening value =
$$\frac{MRL * body weight * 1,000,000}{Amount of soil ingested per day * % absorption}$$

Arsenic soil screening value for short-term (acute) MRL of children

MRLs for short-term exposure	=	0.005mg/kg/day ¹
Body weight	=	10.5 kg ²
Amount of soil ingested per day	=	200 mg/day ³
% absorption	=	42% ⁴
Therefore,		
Arsenic soil screening value	=	625 mg/kg

Arsenic soil screening value for long-term MRL of adult

MRLs for long-term exposure	=	0.0003 mg/kg/day 1
Body weight	=	40 kg ⁵
Amount of soil ingested per day	=	50 mg/day ⁶
% absorption	=	42% ⁴
Therefore,		
Arsenic soil screening value	=	571 mg/kg

¹ Oral Minimal Risk Levels (MRLs) recommended by the US Agency for Toxic Substances and Disease Registry (ATSDR)

² Body weight of female children aged 3 years at 3 percentile from Leung et al. Growth standard from Southern Chinese. Hong Kong Growth Survey 1993,

³ Exposure Factor for General Population Upper Percentile for 3 to <6 years, Exposure Factors Handbook published by the United States Environmental Protection Agency (USEPA)

⁴ relative bioavailability as adopted in EIA Report - North East New Territories New Development Areas (EIA Register No. AEIAR-175/2013)

⁵ Body weight of female adults (aged 18 years) at 3 percentile from Leung et al. Growth standard from Southern Chinese. Hong Kong Growth Survey 1993,

⁶ Exposure Factor for General Population Central Tendency for adult, Exposure Factors Handbook published by the United States Environmental Protection Agency (USEPA)